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# TRANSPORTATION SCIENCES CENTER ACCIDENT RESEARCH GROUP

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## CALSPAN AIR BAG DEPLOYMENT INVESTIGATION

CALSPAN CASE NO. CA96-13

VEHICLE #1 - 1996 SATURN SW2 WAGON VEHICLE #2 - 1991 MITSUBISHI ECLIPSE

LOCATION - STATE OF GEORGIA

CRASH DATE - , 1996

Contract No. DTNH22-94-D-07058

Prepared for:

U.S. Department of Transportation National Highway Traffic Safety Administration Washington, D.C. 20590

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points are coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

## TECHNICAL REPORT STANDARD TITLE PAGE

1	Report No. CA96-13	2. Government Accession No.	3. Recipient's Catalog No.
	Title and Subtitle Calspan on-site Air Bag Deployment Invehicle #1 - 1996 Saturn SW2 Wagon	vestigation	5. Report Date: , 1997
	Vehicle #2 - 1991 Mitsubishi Eclipse Location - State of Georgia		6. Performing Organization Code
	Author(s) Accident Research Group		8. Performing Organization Report No.
	Performing Organization Name and Add Transportation Sciences Center Accident Research Group	dress	10. Work Unit No.
]	Calspan Corporation P.O. Box 400 Buffalo, New York 14225		11. Contract or Grant No. DTNH22-94-D-07058
12.	Sponsoring Agency Name and Address U.S. Department of Transportation National Highway Traffic Safety Admi Washington, D.C. 20590		13. Type of Report and Period Covered Technical Report Crash Date: 1996
			14. Sponsoring Agency Code
<i>15</i> .	Supplementary Notes		

#### 16. Abstract

A two vehicle front to side crash involved a 1996 Saturn SW2 Wagon (Vehicle #1) equipped with dual front air bags which deployed and a 1991 Mitsubishi Eclipse (Vehicle #2). The crash occurred in the month of 1996 in the State of Georgia during the early evening hours.

On-site investigation of an air bag deployment crash that resulted in injuries to a five month old male passenger.

Driver #1, a 26 year old female, who was 177.8 cm (70.0") tall and weighed 131.5 kg (290.0 lb), was en route to her residence after picking up her 5 month old son at her mother's residence. The child who was 71.1 cm tall and weighed 8.6 kg (19.0 lb) was restrained in a rearward facing infant child safety seat which was secured in the right front seat by the available manual lap restraint belt.

Vehicle #2, driven by a 19 year old female, was traveling in an easterly direction at a driver reported speed of 89 km/h (55 mph) and had completed travel in a right curve and was proceeding on a straight segment of the roadway. As Vehicle #2 approached Vehicle #1, Driver #1 initiated a left turn at a four leg intersection across Vehicle #2's travel path. The front of Vehicle #1 struck the left side of Vehicle #2 resulting in a Collision Deformation Classification (CDC) of 01-FLEE-1 for Vehicle #1 and a 11-LYES-2 for Vehicle #2. The delta V computed by the Smash Program for Vehicle #1 was 10 km/h (6 mph) and 11 km/h (7 mph)for Vehicle #2.

During the crash, both air bags in Vehicle #1 deployed. The passenger side mid mount air bag module cover rotated upward as designed and contacted the upper rear surface of the child safety seat's handgrip. The air bag subsequently contacted the rear surface of the child safety seat back support propelling the seat rearward in a head over heel rotational trajectory. During this contact sequence, the child's head compressed the foam pad located under the seat covering and loaded the vinyl seat back support. As a result, he sustained a large subgaleal hematoma and effusion over the right scalp area, a depressed fracture of the right parietal-occipital region, and a contusion of the left fronto temporal area with a small subdural hematoma.

The child was transported via ambulance to a nearby hospital where he was evaluated and subsequently transferred to a neurological ICU at another hospital. On the fourth day he experienced a seizure. He was discharged to his residence six days after the crash. Driver #2, the 19 year old female who was 172.7 cm (68.0") tall and weighed 56.7 kg (125 lbs.) exited the vehicle under her own power. She was not injured.

	<ul> <li>17. Key Words</li> <li>Driver side and passenger side air bags</li> <li>Turn across path collision configuration</li> <li>AIS-4 (Severe) injuries to child in a rear-facing infant child safety seat</li> </ul>		18. Distribution Statement General Public		
19.	Security Classif. (of this report) Unclassified	20. Security Classif. (of this page) Unclassified	21. No.	of Pages	22. Price

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## CALSPAN AIR BAG DEPLOYMENT INVESTIGATION

## CALSPAN CASE NO. CA96-13

VEHICLE #1 - 1996 SATURN SW2 WAGON VEHICLE #2 - 1991 MITSUBISHI ECLIPSE

## **LOCATION - STATE OF GEORGIA**

**CRASH DATE -**

1996

#### Background

This crash was reported on the Internet by a rescue worker and discovered by another SCI Team. The SCI Team forwarded the information to the Field Operations Branch of the National Highway Traffic Safety Administration (NHTSA) which subsequently notified the Calspan SCI Team. E-mail correspondence was conducted with the rescue worker which verified the applicability of the crash requirements to the SCI program. The vehicle was inspected at a collision shop five days after notification from NHTSA which was less than three weeks after the date of the crash.

#### **SUMMARY**

A two vehicle front to side crash involved a 1996 Saturn SW2 Wagon (Vehicle #1) equipped with dual front air bags which deployed and a 1991 Mitsubishi Eclipse (Vehicle #2). The crash occurred in the month of 1996 in the State of Georgia during the early evening hours.

Vehicle #1 was traveling in a westerly direction on a two lane, straight, undivided, rural, dry, asphalt roadway surface which had a posted speed limit of 89 km/h (55 mph). There were no adverse weather conditions although the setting sun may have restricted Driver #1's view of Vehicle #2 which was traveling in the opposing travel lane.

Driver #1, a 26 year old female who was 177.8 cm (70.0") tall and weighed 131.5 kg (290.0 lbs.), was en route to her residence after picking up her 5 month old son at her mother's residence. The child who was 71.1 cm tall and weighed 8.6 kg (19.0 lb) was restrained in a rearward facing child safety seat which was secured in the right front seat by the available manual lap restraint belt. The right front seat was adjusted at the mid-track position which placed the rear plane of the safety seat within close proximity to the passenger side air bag module cover.

Vehicle #2, driven by a 19 year old female, was traveling in an easterly direction at a driver reported speed of 89 km/h (55 mph) and had completed travel in a right curve and was proceeding along a straight segment of the roadway. As Vehicle #2 approached Vehicle #1, Driver #1 initiated a left turn at a four leg intersection across Vehicle #2's travel path.

Driver #1 claimed she did not see Vehicle #2 prior to making the turn, but as she was in the turn detected the approach of Vehicle #2 and applied full brakes as determined by the 0.5 m (1.6') tire skid marks. Driver #2 attempted to avoid the crash by braking and steering right.

Vehicle #2 departed the right side of the roadway and was struck along the left side plane by the left front corner of Vehicle #1. Vehicle #1 rotated in a counterclockwise direction and came to rest on the intersecting roadway. Vehicle #2 rotated in a counterclockwise direction, traveled along the shoulder on the south side of the roadway, re-entered the eastbound travel lane, crossed the roadway, departed the north side of the roadway onto the adjacent grass shoulder, and came to the final rest position (FRP) partially on the westbound travel lane 68 meters (223 ft.) from the point of impact (POI).

The delta V as computed by the Smash Program for Vehicle #1 was 10 km/h (6 mph) and 11 km/h (7 mph)for Vehicle #2. During the crash, both air bags in Vehicle #1 deployed. The driver, who was wearing the manual lap and shoulder belt system suffered minor soft tissue injuries of the forearms which were attributed to contact with the driver air bag. She also sustained contusions of the chest and abdominal area which were attributed to loading on the lap and shoulder restraint belts.

The passenger side mid mount air bag module cover rotated upward as designed during the Supplemental Inflatable Restraint (SIR) actuation sequence and contacted the upper rear surface of the child safety seat's handgrip. This was evident from the vertical transfer/abrasion marks noted on the surface of the air bag module cover which were located along the lower edge of the cover. These transfer marks were consistent in size and shape to the design feature of the handgrip.

The passenger side air bag subsequently contacted the rear surface of the child safety seat back support resulting in an abraded area along the left vertical strut of the shell. The seat was propelled rearward in a head over heel rotational trajectory. During this air bag contact sequence, the child's head compressed the foam pad located under the seat covering and loaded the vinyl shell. As a result, he sustained a large subgaleal hematoma and effusion over the right scalp area, a depressed fracture of the right parietal-occipital region, and a contusion of the left fronto temporal area with a small subdural hematoma. The skull fracture and contusion of the right indicated the child's head was positioned slightly toward the driver at the time of the crash.

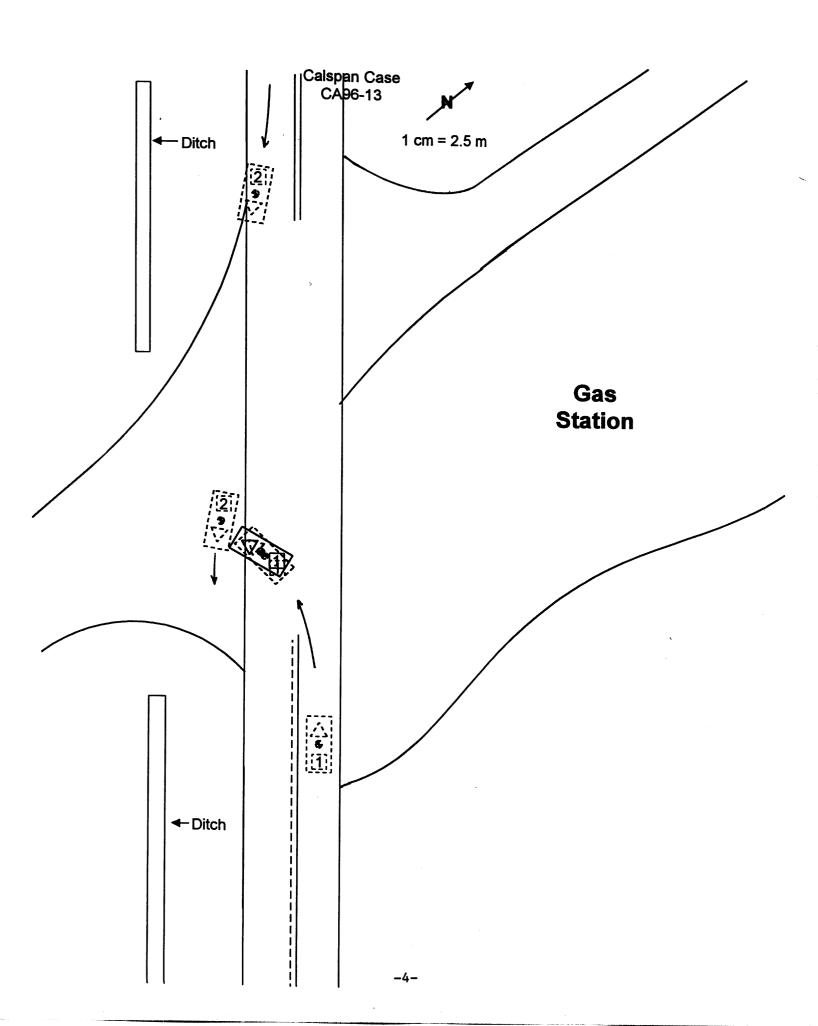
The child safety seat contacted the right front seat back support as noted by a 2.2 cm (0.9") long abrasion in the seat back support fabric which was located 37.5 cm (14.75") above the seat cushion and 10.2 cm (4.0") right of the seat back centerline. The abrasion was attributed to contact by the adjustable carry handle which was in the normal carry position. The safety seat came to rest on the seat cushion with the lap belt still attached to the safety seat.

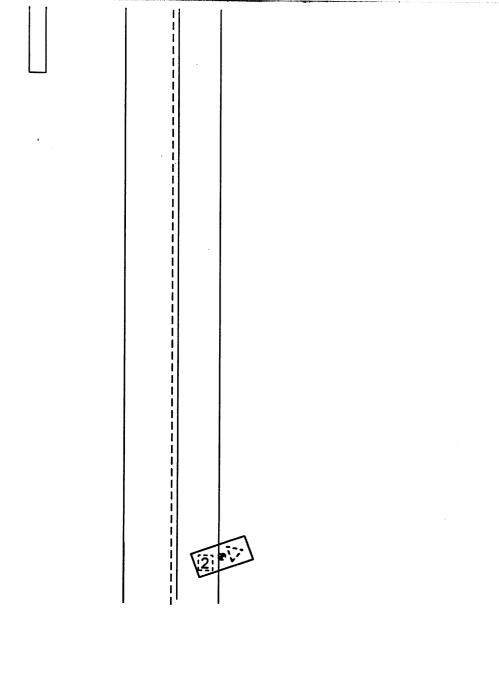
The child was removed from the child safety seat by Driver #1 and held until the arrival of rescue. He was transported via ambulance to a nearby hospital where he was evaluated and subsequently transferred to a neurological ICU at another hospital. On the fourth day he experienced a seizure and was given an anti-seizure medication (Decadron). The grandmother indicated that she held the baby continuously for the first twenty-four hours in an attempt to comfort the distraught child. He was discharged to his home six days after the crash.

Driver #2, the 19 year old female who was 172.7 cm (68.0") tall and weighed 56.7 kg (125 lbs.) exited the vehicle under her own power. She was not injured.

Vehicle #1 sustained direct contact damage 30 cm (12") wide on the left front bumper. The maximum rearward displacement of the front bumper was 9.1 cm (3.6") located at the left front corner. The CDC for this impact was 01-FLEE-1.

The exterior damage to Vehicle #2 was located on the left side plane with a maximum lateral displacement of 11.4 cm (4.5") located 73.7 cm (29.0") forward of the left rear axle. The CDC for this impact was 11-LYES-2.





CRASH DEMOGRAPHIC DATA		
Location:	Two lane undivided roadway at a four leg intersection	
State:	State of Georgia	
Area/Type:	Rural/Commercial	
Accident Date/Time:	September, 1996/ early evening hours	
Investigating Police Agency:	State Police	
Accident type:	Opposing travel direction, turn across path	
Air Bag Vehicle Passenger Injury Severity:	AIS-4 (Severe)	
AMBIENCE		
Viewing Conditions:	Daylight	
Weather:	Clear	
Road Surface:	Dry	
HIGHWAY		
Туре:	State route with an intersecting local route	
Number of Lanes:	2	
Width:	6.6 m (21.6 ft)	
Surface:	Asphalt	
Median:	None	
Edge:	North edge- grass shoulder and gas station, South edge- grass shoulder	
Vertical Alignment:	Level	
Horizontal Alignment:	Straight with a curve to the left 76 meters (250') west of intersection	
Estimated Coefficient of Friction:	$0.8\mu$	
Traffic Density:	Light	
TRAFFIC CONTROLS		
Signals:	None	

Signs:	None for east/west travel directions, unrelated stop signs for north/south intersecting roadway
Markings:	Solid broken yellow centerline with passing permitted in southeast direction, solid white road edge lines with broken white line at gas station entrance.
Speed Limit:	89 km/h (55 mph)
VEHICLE #1 DESCRIP	TION
Description:	1996 Saturn SW2 Wagon, 4 door wagon
V.I.N.:	1G8ZK8278TZ (Serial # omitted)
Color:	Green
Odometer:	9,829 km (6,109 miles)
Engine:	1.9 L L4
Transmission:	Automatic
Steering:	Power steering
Brakes:	Power assisted front disc and rear drum brakes
Padding:	Upper and mid instrument panel, glove compartment door, soft edge steering wheel rim and air bag module covers, door panels, door arm rests, sunvisors, adjustable head restraints
Active Restraints:	Manual lap and shoulder belts with inertia activated locking retractors in the four out-board seating positions, the left front adjustable D-ring was in the full up position, the right front D-ring was in adjusted to the full down position, manual lap belt in center rear
Passive Restraints:	Dual front air bags [Supplemental Inflatable Restraint (SIR)] which deployed as a result of the impact with Vehicle #2
Defects:	None
Tow Status:	Towed due to damage
VEHICLE #2 DESCRIP	ΓΙΟΝ
Description:	1991 Mitsubishi Eclipse
V.I.N.:	4A3CS54U6ME (Serial # omitted)
Color:	Green
Odometer:	163,635 k (101,681 miles)

Engine:	1.8 L	
Transmission:  5-speed manual, center console mounted transmis selector lever		
Steering:	Power steering	
Brakes:	Front disc and drum rear brakes	
Padding:	Instrument panel, glove compartment door, sunvisors, soft- edged steering wheel rim, door panels, door armrests, dual fold-down center armrests, adjustable head restraints	
Active Restraints:	Manual lap belts in the front outboard seating positions, manual lap and shoulder belts in rear outboard seating positions	
Passive Restraints:	Two point motorized torso belts	
Defects:	None	
Tow Status: Driven from scene		

## **VEHICLE #1 DAMAGE**

#### **Exterior:**

The left front bumper of the 1996 Saturn Wagon (Vehicle #1) struck the left side plane of the 1991 Mitsubishi Eclipse (Vehicle #2). Vehicle #1 sustained direct contact damage to the front bumper starting 38.1 cm (15.0") left of the vehicle centerline and extending 30.5 cm (12.0") to the left corner of the bumper. The front bumper sustained a maximum rearward displacement of 9.1 cm (3.6"). Measured crush values along the front bumper are listed below:

Bumper Crush			
$C_1 = 9.1 \text{ cm } (3.6")$	$C_2 = 2.5 \text{ cm } (1.0")$	$C_3 = 0.5 \text{ cm } (0.2")$	
$C_4 = 0$	$C_5 = 0$	$C_6 = 0$	

Components damaged in the crash included: the front bumper fascia; the hood; the left front fender; and windshield.

**CDC:** 01-FLEE-1

Repair Cost:\$4,309.02

#### Interior:

Interior damage to the Saturn Wagon was associated with air bag deployment and occupant contacts. There was no interior damage due to intrusion resulting from the external damage to the vehicle.

The windshield exhibited two separate spider web type fractures which were attributed to driver contact. The first fracture was located 8.3 cm (3.25") below the windshield header and 43.8 cm (17.25") left of the vehicle centerline. A light smudge mark over the fracture site was attributed to contact by the driver's left hand. The second was located 27.9 cm (11.0") left of the vehicle centerline and 8.9 cm (3.5") down from the windshield header. A light smudge mark was also noted in the vicinity of the fracture which was attributed to contact by the driver's right hand.

There were two small scuffs located on the eyebrow of the driver's side instrument panel in-line with the 9 and 3 o'clock position of the steering wheel rim and the two windshield fractures. A smudge mark was noted on the face of the rear view mirror. There was no damage to the rim of the steering wheel and no movement of the sheer capsules.

A smudge mark was located on the knee bolster near the hood release handle located 45.7 cm (18.0") left of the vehicle centerline. This was attributed to contact by the driver's left knee. Another scuff mark located on the knee bolster was located 21.6 cm (8.5") left of the vehicle centerline.

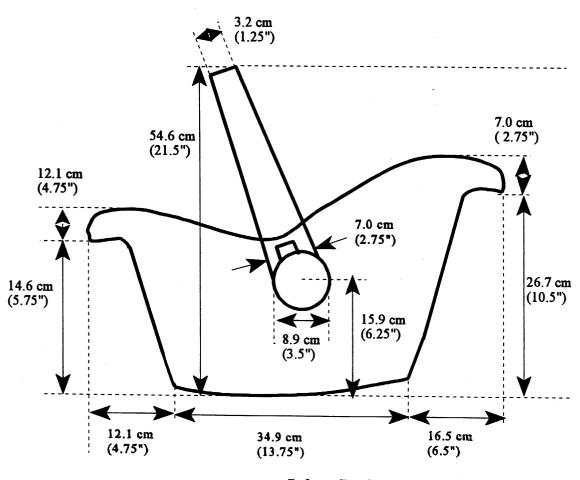
The driver's seat was positioned in the rear-most position on a seat track which had an adjustment range of 17.8 cm (7.0"). The horizontal distance between the seat back support and the steering hub was 71.1 cm (28.0"). The horizontal distance measurement was taken 48.3 cm (19.0") above the seat cushion junction with the seat back support. The tilt column steering wheel was adjusted to the center position which measured 32 degrees above horizontal. The left front D-ring was adjusted to the full up position. The vertical adjustment range of the D-ring was 9.2 cm (3.625").

The right front passenger seat was adjusted 10.2 cm (4.0") rearward of the full forward position on a seat track which had an adjustment range of 15.2 cm (6.0"). The seat back angle was 18 degree rearward from vertical and the leading edge of the seat cushion had an incline angle of 15 degrees. The vertical distance from the leading edge of the seat cushion to the floor was 24.1 cm (9.5"). The horizontal distance from the seat back support to the instrument panel was 68.6 cm (27.0") measured at 38.1 cm (15.0") above the seat and seat back junction. The right front D-ring was adjusted to the lowest position.

There was no evidence of occupant contact on either driver or passenger side air bags, but both driver and passenger side bags displayed evidence of black transfer marks fabric weave disruption resulting from contact with the underside of the air bag module flaps during the deployment sequence.

#### **Child Safety Seat:**

The child safety seat was a Infant Car Seat (rear-facing) style which was secured in the right front passenger seat with the manual lap belt. The date of manufacture was Measured dimensions are shown in the following illustration:



**Infant Car Seat** 

The child was restrained with the available three point harness which secured the continuous loop shoulder straps together in the leg area (refer to photograph #83 on page A-42). The seat was not equipped with a chest shield or tether strap. The child safety seat incorporated a 0.6 cm (0.25") thick multi-color padded seat covering over a dense 1.9 cm (0.75") thick foam padding which was attached to the child seat back support.

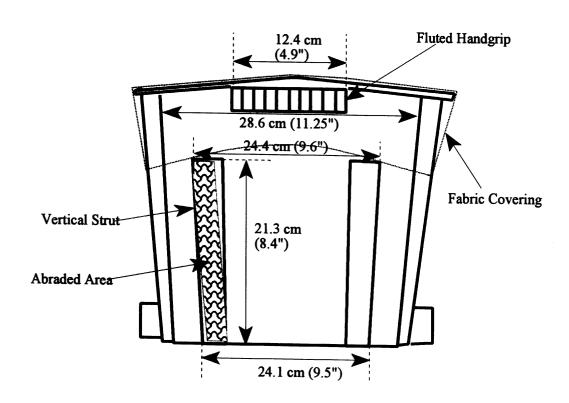
Warning labels were attached to outside surfaces of the safety seat back support. The bright yellow highlighted portion of the label warned of the risks associated with putting the seat in a seat protected by an air bag. The warning read as follows:

WARNING: DO NOT PLACE THIS RESTRAINT IN THE FRONT SEAT OF A VEHICLE THAT HAS A PASSENGER-SIDE AIRBAG. SERIOUS INJURY TO CHILD CAN OCCUR IF AIRBAG INFLATES AND STRIKES A REAR-FACING RESTRAINT.

As seen in photograph #90 on page A-45, the majority of the highlighted warning, however, was obscured by the safety seat covering.

The warning labels were written in two languages. The label on the right side of the seat was written in English while the label on the left side (i.e., the side facing the driver) was written in Spanish. At the bottom of each label was an illustration which appeared to be in conflict with the yellow highlighted warning. It showed the proper method for securing the child safety seat using the vehicle restraint belt in the right front seat (refer to photograph #92 on page A-46).

The child safety seat covering was torn along both upper rear corners from contact by the passenger side air bag module cover during the deployment sequence. The tear on the left side was 6.4 cm (2.5") long and extended laterally from the left edge and 1.3 cm (0.25") below the top edge. The tear on the right side measured 5.1 cm (2.0") long extending laterally from the right edge and 1.3 cm (0.25") below the top edge.



Outside Surface of the Child Safety Seat Back Support

The disk-like protrusions located on the rear surface of the upper handgrip of the child safety seat were contacted by the passenger side air bag module cover as the cover rotated upward during deployment. The handgrip area was 12.4 cm (4.9") wide and had eleven circular disks (refer to photograph #97 on page A-49) which were spaced 1.3 cm (0.5") apart. The left vertical strut of the rear surface of the child safety seat was abraded over the entire surface which was attributed to contact by the passenger side air bag during deployment.

The adjustable carry handle was locked in an upright position perpendicular to the child's body. The handle contacted the right front seat back support as noted by an abrasion in the seat fabric after the safety seat was propelled rearward by the passenger side air bag during the deployment sequence. The handle did not exhibit any damage.

#### Vehicle #2:

#### Exterior

The 1991 Mitsubishi Eclipse sustained direct contact damage along the left side plane which began 16.5 cm (6.5") forward of the left rear axle and extended forward 213.4 cm (84.0"). Maximum lateral displacement of 11.4 cm (4.5") was located 73.7 cm (29.0") forward of the left rear axle. Crush values below the rub strip are listed below:

Crush Along Left Side Plane		
$C_1 = 1.3 \text{ cm } (0.5")$ $C_2 = 9.8 \text{ cm } (3.9")$ $C_3 = 5.5$		$C_3 = 5.7 \text{ cm } (2.3")$
$C_4 = 6.1 \text{ cm } (2.4")$	$C_5 = 4.4 \text{ cm } (1.8")$	$C_6 = 3.8 \text{ cm } (1.5")$

The lower air spoiler sustained several cracks across the fiberglass front surface and was broken at the right corner as a result of contact with the ground.

#### CDC:

Repair Cost: Estimated at \$5,000 by the driver.

#### Interior:

The Mitsubishi Eclipse sustained no intrusion or occupant contact damage as a result of the crash. The 2-point motorized automatic torso belt was locked in the use position at the time of the inspection. The motor apparently failed to operate after the crash.

## SUPPLEMENTAL INFLATABLE RESTRAINT (SIR) SYSTEM

#### Vehicle #1:

## Driver Side Air Bag

The 1996 Saturn Wagon was equipped with a dual front Supplemental Inflatable Restraint (SIR) system that deployed as a result of the impact with Vehicle #2. The driver side air bag module opened in an "I" pattern with a vertical seam which measured 13.7 cm (5.4") in height and 20.3 cm (8.0") in width. At the mid point along the vertical seam, the flap was notched with a 3.8 cm (1.5") lateral and 1.3 cm (0.5") vertical area containing the manufacturer's logo.

A 3.5 cm (1.4") long scuff mark was noted on the lower surface of the right flap of the driver side air bag module cover. It was located 0.6 cm (0.3") right of the center tear seam and 1.3 cm (0.5") above the bottom seam. This mark was attributed to contact with the driver's right forearm during the SIR actuation cycle.

The driver side air bag which measured 53.3 cm (21.0") in diameter contained four tethers that were sewn to the face of the bag with a circular 17.8 cm (7.0") diameter double row of blue stitching. The back of the bag was constructed of fine mesh nylon and had two 1.9 cm (0.75") vent ports spaced 14.6 cm (5.75") apart in the 1 o'clock/ 11 o'clock positions.

The face of the driver air bag exhibited a 5.1 cm (2.0") high black striation transfer which was located 1.3 cm (0.5") below the horizontal centerline and 12.7 cm (5.0") left of center extended 27.9 cm (11.0") to the right. This transfer was attributed to contact with the underside of the air bag module cover during deployment. There was no evidence of occupant contact on the driver's side air bag.

## Passenger Side Air Bag

The right front passenger side air bag was a mid-mount design with an upward opening air bag module cover. The module cover was a rectangular shape with rounded corners which measured 30.5 cm (12.0") laterally and 12.1 cm (4.8") vertically. The surface of the module cover exhibited eleven vertical scratch type abrasions which aligned with the handgrip design of the child safety seat. These scratches were located 10.5 cm (4.125") right of the left edge and extended 1.9 cm (0.75") upward from the bottom edge of the cover (refer to photograph #72 on page A-36). Abrasions noted above this area and located 1.9 cm (0.75") below the top edge of the module cover were attributed to contact with the upper edge of the instrument panel during the upward rotation of the cover.

The passenger side air bag was constructed with one mid level tether designed to limit the travel of the air bag into the occupant space. The 38.1 cm (15.0") wide tether was attached to the air bag with a double row of stitching 31.8 cm (12.5") from the inflator unit. The longitudinal excursion of the air bag from the mid instrument panel measured 63.5 cm (25.0"). The lateral width of the air bag was 78.7 cm (31.0"). A label provided the following identification:

Several black smudge marks were noted on the center face of the passenger side air bag (refer to photograph #74, #75 on pages A-37, A-38). These marks were the result of loading on the underside of the air bag module cover during deployment. The marks were mainly confined to an area starting at the air bag center line and extending 10.2 cm (4.0") to the right. This area was located 74.0 cm (29.1") from the inflator unit.

Driver #1 indicated that when she purchased the vehicle, she was aware that the vehicle was equipped with the dual frontal air bag system. She read through the Vehicle Owner's manual, but failed to read the section describing the SIR system (refer to photographs #100 - #102 on pages A-50, A-51). The driver indicated the primary reason for purchasing this vehicle was for the additional interior space provided by the station wagon body type and not necessarily for the SIR system.

#### **Vehicle Velocity Estimates:**

	Vehicle #1	Vehicle #2
Travel Speed:	89 km/h (55 mph)	89 km/h (55 mph)
Impact Speed:	9 km/h (5 mph)	83 km/h (51 mph)
Total Delta V:	10 km/h (6 mph)	11 km/h (7 mph)
Longitudinal Delta V:	-9 km/h (-5 mph)	-9 km/h (-6 mph)
Lateral:	-5 km/h (-3 mph)	5 km/h (3 mph)
Energy Absorption:	9,728 joules (7,174 ft-lb)	11,910 joules (8,784 ft-lb)

The impact speed and velocity changes were computed by the damage and trajectory algorithms of the Smash program.

## **COLLISION SEQUENCE**

#### Pre-Crash:

The 26 year old driver of the 1996 Saturn SW2 Wagon (Vehicle #1) was returning home from work after picking up her five month year old son from her parent's home where he was being cared for while she was at work. She placed him in the right front passenger seat in a rear-facing Infant Car Seat which was securely fastened in place with the right front passenger lap belt. The seat was adjusted 10.2 cm (4.0") rearward of the full forward position on a seat track which had an adjustment range of 15.2 cm (6.0").

Driver #1 indicated she was traveling at the posted speed limit of 89 km/h (55 mph) in a westbound direction on a two lane undivided roadway. The ambient conditions were warm with a setting sun. The driver was properly wearing the lap and shoulder belt with the D-ring adjusted at the top-most position.

Driver #1 slowed and initiated a left turn at a four leg intersection. She indicated the sun was in her eyes which prevented her from observing the approach of Vehicle #2 from the opposite direction. The dark green color of Vehicle #2 may have blended into the vegetation background which may have contributed to Driver #1's lack of visual perception to the approach of Vehicle #2.

As Vehicle #1 initiated the left turn, Driver #2 attempted to avoid the crash by braking and steering to the right. Vehicle #2 departed the right side of the roadway and traveled across the northbound intersecting travel lane adjacent to the intersection boundary. Tire skid marks noted at the scene indicated Driver #1 observed the approach of Vehicle #2 and applied full brakes to avoid the crash (refer to photograph #8 on page A-4).

#### Crash:

Vehicle #1 struck Vehicle #2 on the left side plane with the left front corner of the bumper resulting in a Smash computed delta V of 10 km/h (6 mph) for Vehicle #1 and 11 km/h (7 mph) for Vehicle #2. The impact resulted in the deployment of both front air bags in Vehicle #1.

The upper handgrip of the child safety seat was contacted by the passenger side air bag module cover as it rotated upward during the deployment sequence. The expanding air bag contacted the rear surface of the child safety seat propelling it in a rearward rotational motion. This contact event accelerated the safety seat against the child's head which resulted in a depressed fracture of the right parietal-occipital bone, a subgaleal hematoma over the right scalp, contusion of the left fronto temporal area with a small hematoma, and a closed head injury with neurologic deficit. The safety seat's carry handle contacted the right front seat back support. The seat rebounded forward and came to rest on the right front seat cushion.

Driver #1 move forward against the lap and shoulder belt system resulting in contusions and abrasions of her chest and abdominal area. The driver side air bag contacted her forearms resulting in her hands contacting the windshield.

#### Post Crash:

Final Rest - Vehicle #1 came to rest facing in a southbound direction near the point of impact. Vehicle #2 traveled along the south shoulder, re-entered the roadway, traveled diagonally across both travel lanes in counterclockwise rotation and departed the north side of the roadway. It came to the final rest position facing in a northbound direction with the front tires on the north shoulder and the rear tires on the roadway 68 meters (223 ft.) from the point of impact.

**Driver Activities -** The child remained secured in the child safety seat and was crying. Driver #1 removed him from the seat and sat on the adjacent grass shoulder rocking him in her arms until rescue arrived.

Police Activities -The police arrived at the scene seven minutes after the crash.

Rescue Activities - The child was placed on a backboard where his head was strapped down. The child and Driver #1 were transported by the EMS via ambulance to a nearby hospital. After an initial evaluation, the child was transferred to another hospital where he was admitted to the neurological ICU.

Scene Clearance - Vehicle #1 was towed from the scene to a collision repair facility where an inspection was completed for this report. Vehicle #2 was driven from the scene.

## **HUMAN FACTORS/OCCUPANT DATA**

#### Vehicle #1

Vehicle #1	Driver	Right Front Passenger	
Age/Sex:	26 year old female	5 month old male	
Height:	177.8 cm (70.0")	71.1 cm (28.0")	
Weight:	131.4 kg (290.0 lbs)	8.6 kg (19.0 lbs)	
Manual Restraint System Usage:	Wearing the lap and shoulder belt system	Rear facing infant child safety seat secured with the right front lap belt	
Usage Source:	Vehicle inspection, driver interview, police accident report	Vehicle inspection, driver interview, police accident report	
Eyewear:	None	None	
Jewelry:	Watch on left wrist with large crystal which was broken in the crash, wedding ring on third finger of left hand, ring on fourth finger of right hand	None	
Clothing:	Blue shirt and black pants	Purple plaid sleeveless one-piece outfit	
Vehicle Familiarity:	Tai shabba verifice new tiffee filolitiis belole classi, traded in a Safirn sedan		
Route Familiarity:	Very familiar, travel daily		
Trip Plan:	From work to parents home to own home, crash occurred within two miles of Driver #1's residence		

Vehicle #1	Driver	Right Front Passenger
Type of Medical Treatment:	Treated and released.	Transported to a nearby hospital, evaluated, and transferred to a second hospital with a neurological ICU where he remained for six day before being released

#### Vehicle #2

Vehicle #2	Driver #2
Age/Sex:	19 year old female
Height:	172.7 cm (68.0")
Weight:	56.7 kg (125.0 lbs)
Restraint System Usage:	Wearing only the automatic shoulder belt, the manual lap belt was not used
Usage Source:	Driver interview
Vehicle Familiarity:	Very familiar, driver's personal car, acquired 1996
Route Familiarity:	Very familiar
Trip Plan:	Not known
Type of Medical Treatment:	Not injured, none required

#### **INJURY DATA**

## Vehicle #1

Driver #1 and the five month old right front occupant were transported via ambulance to a local treatment facility where the boy was subsequently transferred to a neurological Intensive Care Unit. Driver #1 left the local treatment facility to travel with her son before the facility could complete their evaluation and treatment of her injuries. The boy was hospitalize for six days and discharged to his home.

DRIVER #1 INJURIES	INJURY SEVERITY (AIS-90)	INJURY SOURCE
1. Sprained left wrist	751420.12	Windshield

DRIVER #1 INJURIES	INJURY SEVERITY (AIS-90)	INJURY SOURCE
1. Sprained left wrist	751420.12	Windshield
Laceration of middle finger on the left hand	790600.12	Windshield
Scratches on inside of left forearm	790202.12	Driver side air bag
4-5. Bruises on inside surface of both forearms	790402.11 790402.12	Driver side air bag
6-7. Abrasion/contusion on stomach area	590202.14 590402.14	Lap belt
8. Contusion across chest	490402.14	Shoulder belt

	CHT FRONT SSENGER INJURIES	INJURY SEVERITY (AIS-90)	INJURY SOURCE
1.	3 mm depressed fracture of the right parietal- occipital region	150404.31	Passenger side air bag module cover and air bag interaction with the child safety seat
2-3.	Contusion of the left fronto temporal area with a small subdural hematoma	140604.32 140652.42	Passenger side air bag module cover and air bag interaction with the child safety seat
4.	Large subgaleal hematoma and effusion over the right scalp area	190402.11	Passenger side air bag module cover and air bag interaction with the child safety seat
5.	Closed head injury with neurologic deficit	160404.20	Passenger side air bag module cover and air bag interaction with the child safety seat

#### **OCCUPANT KINEMATICS**

#### Driver #1

The 26 year old female driver of the 1996 Saturn Wagon was driving with the seat adjusted to the rear most position on a seat track which had an adjustment range of 17.8 cm (7.0"). The horizontal distance between the seat back support and the steering hub was 71.1 cm (28.0") at a height of 48.3 cm (19.0") above the junction with the seat cushion junction and seat back support. The tilt column steering wheel was adjusted to the center position. She was wearing the manual lap and shoulder belt system. The seat belt upper anchor D-ring was adjusted to the full up position. The vertical adjustment range was 9.2 cm (3.625").

Driver #1 was in the process of making a left turn and subsequently applied the brakes in a panic stop to avoid contact with Vehicle #2. The left front bumper of Vehicle #1 struck the left side plane of Vehicle #2 in a glancing type impact.

During the impact sequence, Driver #1 moved forward and loaded the lap and shoulder belt system as evidenced by the reported contusion across the chest and contusions/abrasions of the abdominal area. Her hands were located along the upper portion of the steering wheel rim at the time of the air bag deployment sequence. The expanding driver side air bag contacted the driver's forearms resulting in typical contusion/abrasion patterns. Both forearms were propelled upward with her hands subsequently striking the windshield resulting in two spider web type fracture patterns. She sustained a laceration of the left third finger and sprain of the left wrist which were attributed to this contact mechanism. A scuff mark along the right side of the steering column was attributed to contact by the driver's right knee. She did not report any injury related to this contact mechanism.

#### Right Front Passenger

The five month old male passenger was secured in a rearward facing infant child safety seat which was secured in the right front passenger seat with the manual lap belt. The boy's grandmother and daycare provider described the procedure for securing the child safety in the vehicle as requiring two people to accomplish this task. Prior to the crash, she indicated that her daughter (Driver #1) sat in the driver seat while the grandmother routed the lap belt through the designated slots at the top of the upper sides and handed the belt tab over to the driver. After the driver latched the belt into the buckle, the grandmother pulled the belt tight. The child was restrained in the safety seat by the seat's safety harness.

The right front seat was adjusted 10.2 cm (4.0") rearward from the full forward position on a seat track which had an adjustment range of 15.2 cm (6.0"). The seat back angle measured 18 degrees rearward from vertical and the seat cushion had a 15 degree incline. The horizontal distance from the right front passenger seat back support to the air bag module measured 68.6 cm (27.0") at 38.1 cm (15.0") above the seat cushion. The overall length of the child safety seat when secured by the manual lap belt was 63.5 cm (25.0").

As the vehicle decelerated during the braking evasive maneuver, the child safety seat rocked forward placing the upper portion of the its seat back support within close proximity to the passenger side air bag module cover at the time of the air bag deployment sequence. The child's head was positioned slightly toward the driver as determined from the injury pattern to the child's head.

During the SIR deployment cycle, the passenger side mid mount air bag module cover rotated in the typical upward direction and contacted the upper handgrip of the child safety seat along its leading edge. This was determined by the impression transfer of the handgrip in the vinyl surface of the module cover. The rear surface of the safety seat's back support was then contacted by the expanding passenger side air bag and accelerated in a rearward rotational motion.

The child's head moved rearward compressing the foam padding against the shell of the safety seat. This contact sequence resulted in the following injuries: a large subgaleal hematoma and effusion over the right scalp; a 3 mm depressed fracture of the right parietal-occipital area; a closed head injury with neurologic deficit; and a contusion of the left frontal temporal area with a small subdural hematoma.

The child seat continued in a rearward trajectory and contacted the right front seat back support with the leading edge of the carry handle which was oriented in a vertical position above the child's chest prior to the crash. Contact with the seat back support by the child safety seat handle was evident by a 2.2 cm (0.9") linear horizontal abrasion mark in the fabric located 37.5 cm (14.8") above the seat and 10.2 cm (4.0") right of the seat back support centerline. The safety seat subsequently rebounded and came to rest on the right front seat cushion.

#### Driver #2

Driver #2 was restrained by the motorized automatic torso belt at the time of the crash. Her torso moved forward and to the left against the belt during the impact sequence. She was not injured.

## **ATTACHMENT A**

**Prints** 



1. View of the westbound pre-crash trajectory of the 1996 Saturn SLT (Vehicle #1) at 91 meters (300 ft.) prior to the point of impact (POI).



2. Pre-crash trajectory of Vehicle #1-76 meters (250 ft.) prior to the POI.



3. Pre-crash trajectory of Vehicle #1-61 meters (200 ft.) prior to the POI.



4. Pre-crash trajectory of Vehicle #1- 46 meters (150 ft.) prior to the POI.



5. Pre-crash trajectory of Vehicle #1- 30 meters (100 ft.) prior to the POI.



6. Pre-crash trajectory of Vehicle #1-15 meters (50 ft.) prior to the POI.



7. Pre-crash trajectory of Vehicle #1 initiating the left turn.



8. View showing pre-impact skid marks from Vehicle #1. This view also highlights Vehicle #1's final rest position (FRP).



9. Reverse view of Vehicle #1's trajectory from beyond POI.



10. Lookback view of Vehicle #1 at 23 meters (75 ft.) from POI.



11. Lookback view of Vehicle #1 at 46 meters (150 ft.) from POI.



12. Lookback view of Vehicle #1 at 91 meters (300 ft.) from POI.



13. Eastbound pre-crash trajectory of the 1991 Mitsubishi Eclipse (Vehicle #2) at 91 meters (300 ft.) prior to the POI.



14. Pre-crash trajectory of Vehicle #2 - 76 meters (250 ft.) prior to the POI.



15. Pre-crash trajectory of Vehicle #2 - 61 meters (200 ft.) prior to the POI.



16. Pre-crash trajectory of Vehicle #2 - 46 meters (150 ft.) prior to the POI.



17. Pre-crash trajectory of Vehicle #2 - 30 meters (100 ft.) prior to the POI.



18. Pre-crash trajectory of Vehicle #2 - 15 meters (50 ft.) prior to the POI showing the crash avoidance path toward the right shoulder of the roadway.



19. Vehicle #2 trajectory on the southbound intersecting roadway just prior to the POI.



20. View of the POI.



21. Vehicle #2's post impact, off roadway trajectory.



22. Close-up view of Vehicle #2's tire scuff marks on the south grass shoulder.



23. Vehicle #2's post impact trajectory along the south shoulder of the roadway.



24. View of Vehicle #2's right front and right rear tire marks in the grass along the south shoulder.



25. View of Vehicle #2's trajectory heading back onto the roadway.



26. Vehicle #2's skid marks crossing the roadway toward the north shoulder.



27. View of the right front and left rear tire crossover marks as Vehicle #2 rotated counterclockwise.



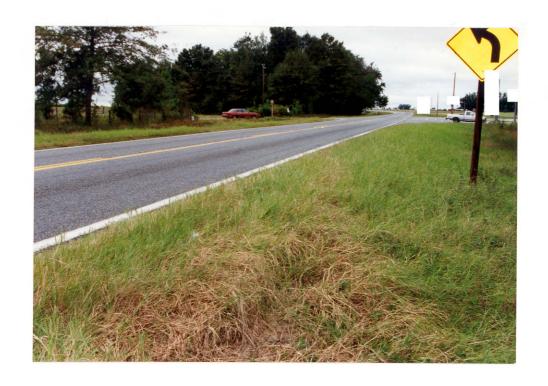
28. View of the skid marks leaving the roadway onto the north shoulder.



29. Vehicle #2's trajectory on the north grass shoulder of the roadway.



30. View of Vehicle #2's FRP.



31. Lookback view of Vehicle #2's FRP.



32. Lookback view of Vehicle #2's post crash trajectory approximately 61 meters (200 ft.) from the POI.



33. Another lookback view of Vehicle #2's post crash trajectory taken on the eastbound travel lane.



34. Lookback view of Vehicle #2's trajectory from the POI.



35. Lookback view at 46 meters (150 ft.) from POI.



36. Lookback view at 91 meters (300 ft.) from POI.



37. Overall view of the 1996 Saturn SLT's frontal plane.



38. View of the left frontal plane.



39. Close-up view of the left side bumper reinforcement bar.



40. Left front corner view of Vehicle #1.



41. View of the driver contact evidence on the windshield.

42. Lateral view showing rearward displacement of the left front corner.





43. Lateral view of the left front fender of Vehicle #1.



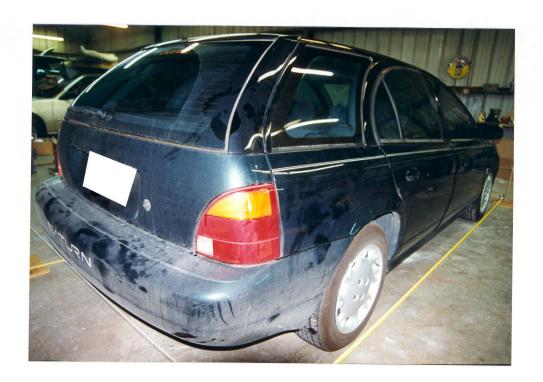
44. Close-up view of the left front corner.



45. View of the left side plane.



46. Left rear corner view.



47. Right rear corner view.



48. View of the right side plane.



49. Right front corner view.



50. Lateral view from the right side showing no visible damage.



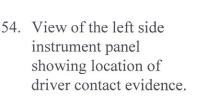
51. Lateral view from the left side showing the position of the front seats and both deployed air bags.

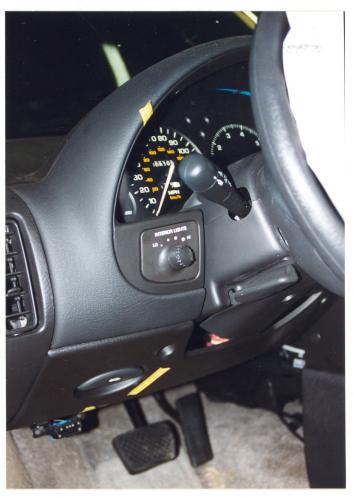


52. Angular view of the driver's side windshield, instrument panel and air bag module showing contact evidence.



53. View of the driver's seat with yellow tape marking the location of an abraded surface on the lap belt.







55. Close-up view of a scuff mark on the left side of the instrument panel eyebrow.



56. Close-up view of a scuff mark on the right side of the instrument panel eyebrow.



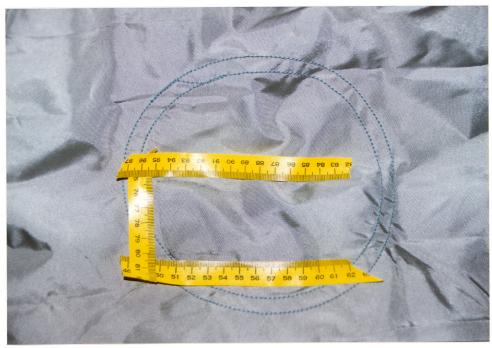
57. Close-up view of scuff marks on the left knee bolster.



58. Close-up view of scuff marks located on the right side of the steering column.



59. Vertical view of the driver side air bag, windshield, and sunvisor.



60. Close-up view of the driver side air bag showing the location of black striated transfers.



61. Close-up view of a small spider web glazing crack located at the upper left corner of the windshield.



62. Close-up view of another glazing crack on the windshield located 15.9 cm (6.3") right of the crack shown in photograph #61.



63. View of the driver's side sunvisor in the "up" position.



64. View of the air bag warning label located on the roof side of the left sunvisor.



65. Close-up view of the driver side air bag module right cover flap showing a scratch mark near the bottom edge.



66. Lateral view of the steering wheel rim showing no deformation.



## **BESTAVAILABLE**

67. Vertical view of the center instrument panel and center console.

68. Vertical view of the right front passenger area showing the passenger side air bag in an extended position, air bag module cover, instrument panel, and windshield.





69. Close-up view of the air bag information label on the right sunvisor visible when the sunvisor is in the "up" position.



70. Air bag warning label on the roof side of the right sunvisor.



71. Passenger side air bag module flap showing several horizontal scuffs and scratches.



72. Passenger side air bag module flap showing scuffs along the lower edge consistent with the hand grip of the infant safety seat.



73. View of the air bag module flap in relation to the upper back surface of the rear-facing infant safety seat.

74. View of the passenger side air bag extended into the right front passenger seating area.

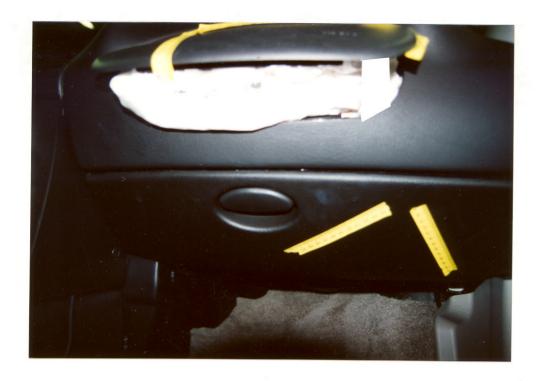




75. Close-up view of the black striated marks on the face of the passenger side air bag.



76. Angular view of the front seat area showing the instrument panel, windshield, and both air bags.



77. Close-up view of the glove compartment door showing several scuff marks.



78. Passenger side air bag identification label.



79. Lateral view from the left side showing the right front seat adjustment and the position of the infant safety seat at the time of the crash.



80. Lateral view showing the distance between the infant safety seat and the air bag module cover.



81. Close-up lateral view highlighting the distance between the infant safety seat and the air bag module cover.



82. Lateral view of the rear-facing infant safety seat secured by the lap belt in the right front passenger seat.

## "GRAPHIC" PHOTOGRAPHS and IMAGES

Several vivid photographs have been removed for this case.

These photographs contain highly graphic material which may be improper for the general audience.

Photo #83 page A-42

If you would like a copy of these photographs and/or images please call or write to:

Marjorie Saccoccio at (617) 494-2640
VOLPE NATIONAL TRANSPORTATION SYSTEMS CENTER
55 Broadway
Cambridge, MA 02142



84. Angular view of the infant safety seat secured in the right front passenger seat.



85. Vertical view of the right front passenger seat with the infant safety seat secured by the manual lap belt.



86. Lateral view from the right side of the rear-facing infant safety seat secured in the right front passenger seat.



87. Close-up lateral view from the right side of the air bag module and the upper rear surface of the infant safety seat.



88. Close-up overhead view showing the relative position of the infant safety seat with the passenger side air bag module cover.



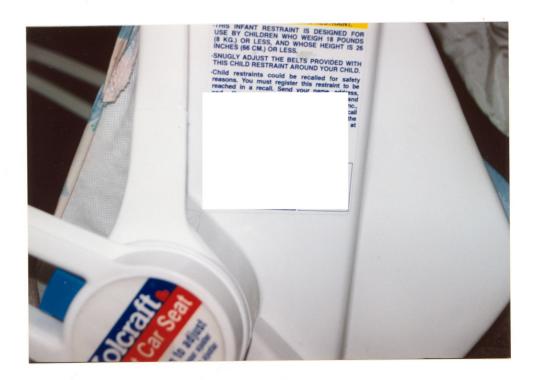
89. View showing the relative distance between the rear surface of the infant safety seat and the air bag module cover. This view was taken in an upward direction from the right side of the vehicle.



90. Close-up view of the yellow air bag warning label on the infant safety seat which was partially obscured by the seat cover.



91. Warnings and instructions label written in English text located on the left side of the infant safety seat back support.



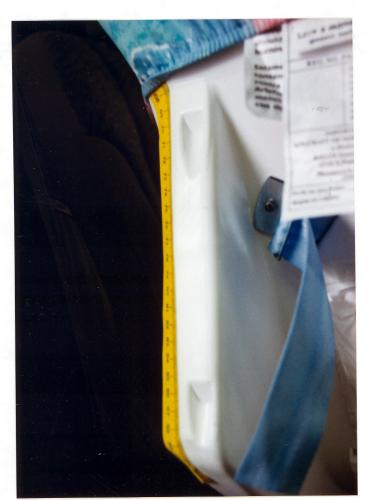
92. Close-up view of the lower half of the infant safety seat label showing installation guidelines.



93. Warnings and instructions label written in Spanish text located on the right side of the infant safety seat back support.



94. View of the upper back of the infant safety seat with the seat cover in place showing tearing of the fabric at the upper right and left corners.



95. Close-up view of the scuff mark along the left rear surface of the infant safety seat back support.



96. View of the back of the infant safety seat with the fabric cover removed showing the fluted area which was consistent with the vertical scuff marks on the lower surface of the air bag module cover.



97. Close-up view of the uncovered upper back surface of the infant safety seat showing scuffing across the entire top edge.



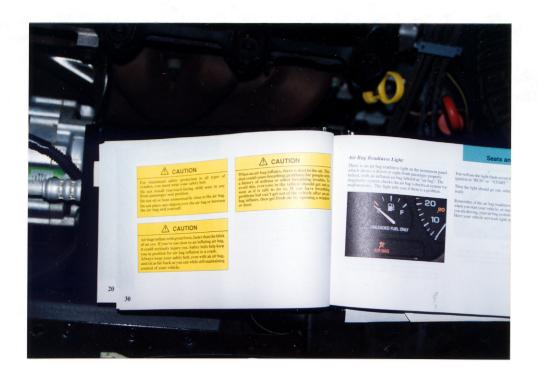
98. Overhead view of the infant safety seat with the seat back cushion folded forward to show the 19.1 mm (0.75") thick foam padding on the seat back.



99. Close-up view of the foam padding.



100. Page #29 of the Saturn owner's manual with warnings regarding safety belt usage for children and all occupants of vehicles which have air bags.



101. Warning on page #30 of the Saturn owner's manual pertaining to the use of rear-facing infant safety seats in the front seat of a vehicle equipped with dual air bags.



102. Warning on page #45 of the Saturn owner's manual pertaining to the placement of rearfacing infant safety seat in the front seat of a vehicle equipped with dual air bags.



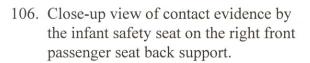
103. Lateral view from the right of the front passenger seated area showing the relative seat positions.



104. Lateral view from the right side of the right front passenger seat and showing the excursion of the passenger side air bag.



105. View of the right front passenger seat back support.







107. Close-up view of the warning label on the right front passenger lap belt.



108. Lateral view of the rear seats of Vehicle #1.



109. Overall view of the frontal plane of the 1991 Mitsubishi Eclipse (Vehicle #2).



110. Left front corner view of Vehicle #2 showing non-related crash damage to the lower air spoiler.



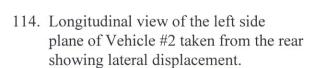
111. View of the left side plane of Vehicle #2.

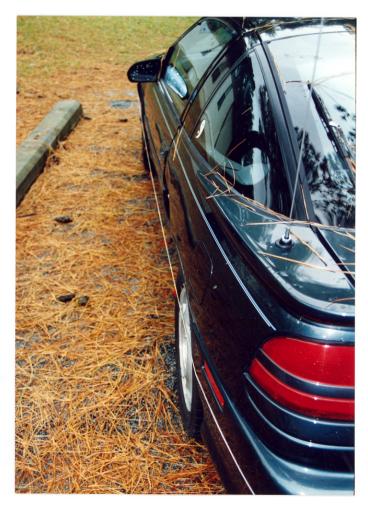


112. View of the contact damage to the left front wheel, left front fender, and left side door.



113. Close-up view of the damage to the left front wheel.







115. Left rear corner view of Vehicle #2.



116. View of the right side plane of Vehicle #2.



117. View of the right front corner view showing the cracked lower air spoiler.



118. Angular view of the front seated area, instrument panel, and windshield of Vehicle #2.



119. Lateral view of the driver's seat showing the restraint belt in the operational mode.

# Appendix B SMASH Algorithm

### SCI CA96-13

	Speed Change (Damage)	Speed Change (Linear Momentum and Spinout)	Impact Speed (Linear Momentum and Spinout)			
Vehicle #1			-			
Total	10 km/h ( 6 mph)	9 km/h ( 6 mph)	9 km/h ( 5 mph)			
Longitudinal	-9 km/h ( -5 mph)	8 km/h ( 5 mph)	-9 km/h ( -5 mph)			
Latitudinal	-5  km/h ( -3  mph)	8 km/h ( 5 mph) 4 km/h ( 2 mph)	0 km/h ( 0 mph)			
PDOF Angle	30 ⅓	-154 <del>¼</del>	_			
Energy Dissipat	ced = 9728	Joules (7174 Ft-Lb	)			
Barrier Equival	lent Speed = 8.4	km/h ( 5.2 mph)	,			
Calculated usin	ng crush coefficients	entered by the user.				
Vehicle #2						
Total	11 km/h ( 7 mph)	9 km/h ( 6 mph)	83 km/h ( 51 mph)			
Longitudinal	-9 km/h ( -6 mph)	8 km/h ( 5 mph)				
Latitudinal	5 km/h ( 3 mph)	-5 km/h ( -3 mph)	•			
PDOF Angle	-30 ½	150 ½	0  km/h ( 0  mph)			
Energy Dissipat	ced = 11910	Joules ( 8784 Ft-Lb	١			
Barrier Equival	lent Speed = 13.9	km/h / 0 6 mmh)	)			
Calculated usin	ng crush coefficients	entered by the user.				

# Separation Results

Separation (Using Spinout)		Vehicle #1 áááááááááá	Vehicle #2 ááááááááá		
us vs psisd		km/h ( -0 mph) km/h ( 2 mph) -89 deg/sec		km/h ( 57 mph) km/h ( -3 mph) -178 deg/sec	
Relative Velocity (Linear Momentum) Speed along line through cg Speed orthogonal to cg line	-9	km/h ( -5 mph) km/h ( -1 mph)		km/h ( 24 mph) km/h ( 46 mph)	
Closing Velocity (Linear Momentum)	=	29 km/h ( 18 mph)			

#### General Information

Year Make Model	Vehicle #1 ááááááááá 1996 Saturn SW2	Vehicle #2 ááááááááá 1991 Mitsubishi Eclipse	
CDC	01FLEE1	11LYES2	
Side Damaged	F	L	
PDOF Angle	30 ½	330 ½	
Heading Angle	315 ½	191 ½	

Calculation method: Vehicle's Crush Coeff. Vehicle's Crush Coeff.

d0 crush coeff. 102.20 sqrt(N) 63.32 sqrt(N) 61 crush coeff. 7.25 sqrt(N)/cm 8.02 sqrt(N)/cm

# Damage Information

Vehicle Damage Known	Vehicle #1 ááááááááá Yes	Vehicle #2 ááááááááá Yes		
Crush Length	130.8 cm ( 51 in)	196.9 cm ( 78 in)		
C1	9.1 cm ( 4 in)	1.3 cm ( 1 in)		
C2	2.5 cm ( 1 in)	9.8 cm ( 4 in)		
C3	0.5 cm ( 0 in)	5.7 cm ( 2 in)		
C4 C5	0.0 cm ( 0 in)	6.1 cm ( 2 in)		
C6	0.0 cm ( 0 in)	4.4 cm ( 2 in)		
D	0.0 cm ( 0 in)	3.8 cm ( 1 in)		
D'	-42.4 cm (-17 in)	-0.2 cm ( -0 in)		
Б	-78.8 cm ( -31 in)	-7.4 cm ( -3 in)		

#### Scene Information

	Vehicle #1 ááááááááá			
Impact x position y position heading angle	9.5 m ( 31.2 ft) 1.2 m ( 3.9 ft) 315 ½	11.8 m ( 38.7 ft) -1.7 m ( -5.6 ft) 191 ½		
Rest x position y position heading angle	9.8 m ( 32.2 ft) 1.5 m ( 4.8 ft) 299 ½	-55.4 m ( -181.8 ft) 6.5 m ( 21.3 ft) 71 ½		
Side-Slip Angle	0 ½	0 ½		

# Motion Information

	Vehicle #1 ááááááááá	Vehicle #2 ááááááááá
Did Vehicle Rotate? Did Rotation Stop? End of Rotation x position End of Rotation y position End of Rotation angle	Yes No 9.8 m ( 32.2 ft 1.5 m ( 4.8 ft 299.0 ½	
Curved Path? Curved Path x position Curved Path y position	No 0.0 m ( 0.0 ft 0.0 m ( 0.0 ft	
Direction of Rotation Amount of Rotation	CCW < 360½	CCW > 360½

Was There Sustained Contact Between the Vehicles? No

# Friction Information

	Vehicle #1 áááááááááá	Vehicle #2 áááááááááá
Rolling Resistance		
Left Front Wheel	0.25	0.25
Right Front Wheel	0.25	0.25
Left Rear Wheel	0.01	0.01
Right Rear Wheel	0.01	0.01

Coefficient of Friction = 0.80

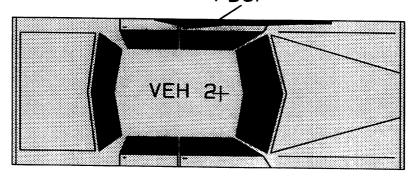
# Vehicle Dimensions

	Vehicle #1 ááááááááá	Vehicle #2 ááááááááá		
Length Width Wheelbase Weight CG to Front of Veh Engine Displacement	449.1 cm ( 177 in) 169.4 cm ( 67 in) 260.1 cm ( 102 in) 1280 kgs ( 2822 lbs) 228.1 cm ( 90 in) 1.9 liters	433.1 cm ( 171 in) 168.9 cm ( 66 in) 246.9 cm ( 97 in) 1202 kgs ( 2650 lbs) 211.6 cm ( 83 in) 1.8 liters		
Moment of Inertia Vehicle Mass	233132 kgs ( 20635 lbs) 1280 kgs ( 7.3 lb-s^2/in)	203600 kgs ( 18021 lbs) 1202 kgs ( 6.9 lb-s^2/in)		

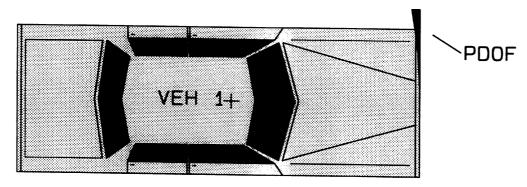
# Trajectory Simulation Results

Simulation Time:	0.000 seconds	Integration Step =	= 0.000 seconds
No. of Iterations Best Iteration Error		Vehicle #1 ááááááááá 0 0 0.000	Vehicle #2 ááááááááá 0 0 0 0.000
Predicted Rest Posit	cions x	0.0 m ( 0.0 ft)	0.0 m ( 0.0 ft)
	y	0.0 m ( 0.0 ft)	0.0 m ( 0.0 ft)
	angle	0.0 ½	0.0 ½
Scene Rest Positions	s x	9.8 m ( 32.2 ft)	-55.4 m ( -181.8 ft)
	y	1.5 m ( 4.8 ft)	6.5 m ( 21.3 ft)
	angle	299.0 ½	71.0 ½
Residual Velocity	Linear	0 km/h ( 0 mph)	0 km/h ( 0 mph)
	Angular	0.00 deg/sec	0.00 deg/sec

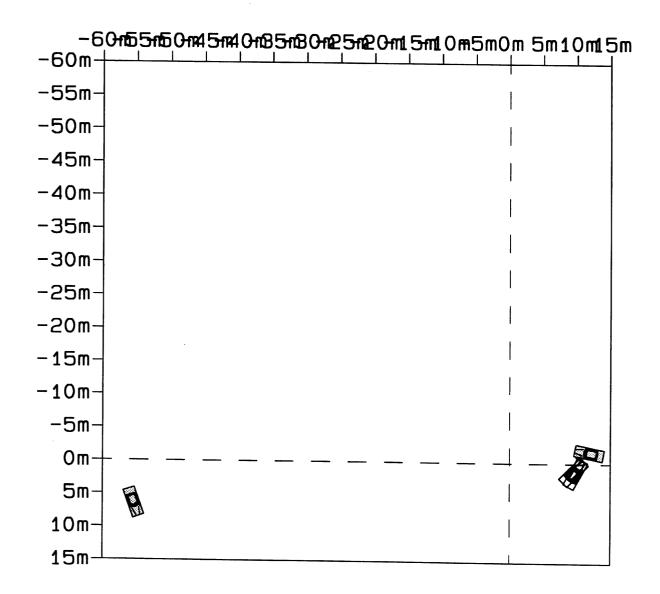
1991 MitsubishippoFclipse



1996 Saturn SW2



SCI CA96-13



LOG NUMBER
ACCIDENT DATE  MONTH  YEAR  9  4
INVESTIGATING TEAM: Calspan Corp
FLEET VEHICLE  1 - 72 MERCURY, 73 CHEVROLET OR VOLVO  2 - PRIVATE OWNER  3 - INSURANCE FLEET  4 - GSA FLEET  5 - POLICE FLEET  6 - OTHER CORPORATE/PRIVATE FLEET
DID AIR BAG CAR REQUIRE TOWING? Y - YES N - NO
DID AIR BAG DEPLOY? Y - YES N - NO I - INADVERTENT
VEHICLE
MODEL YEAR  MANUFACTURER Saturn CODE  MODEL Station Wings SW CODE  CODE  96 24 CODE
CDC RANKED BY SEVERITY EVENT # DEPLOY (Y/N)  1A _L _E _L _E _E
HIGHEST AIS IN AIR BAG VEHICLE
DELTA V OF PRINCIPLE DAMAGE TO AIR BAG VEHICLE
OBJECT STRUCK BY AIR BAG VEHICLE Vehicle
DRIVER AGE IN AIR BAG VEHICLE
NUMBER OF FRONT SEAT OCCUPANTS IN AIR BAG VEHICLE
NUMBER OF BELTED FRONT SEAT OCCUPANTS IN AIR BAG VEHICLE
TYPE OF INVESTIGATION  R - REMOTE S - ON-SITE

## AIR BAG OCCUPANT LEVEL FORM

BEST AVAILABLE

LOG NUMBER <u>64 9 6 1 3</u>										
OCCUPANT NUMBER (assign by seating position)										
OCCUPA	OCCUPANTS AGE									
SEATING POSITION  1 - LEFT  2 - CENTER 1 (first person in center =2)  3 - CENTER 2  4 - RIGHT										
	ROW FRON BACK	Γ						+		
	NT FAT YES NO	TAL						u		
			OIC		INJU	RY				
ISS REG	M	$\frac{\mathcal{R}}{\mathcal{W}}$	LES Y A Y Y Y A	I I	<u></u>	INJURY SOURCE 201 170 170 170 152 152	DIRECT/INDIRECT	DATA SOURCE 27 27 27 27 27		
8.	<u>C</u>	W		I	1	157	<u></u>	<del>7</del> 7 <del>-0</del> 7		
9.		-								
10.										
11. 12.										

(If no injuries, enter 0 for the first AIS and leave the rest of the OIC's blank)

	AIR BAG OCCUPANT LEVEL FORM								
LOG	NUMBER						CA	9613	BEST AVAILABLE
OCCL	JPANT NU	JMBER	(assigr	n by sea	ating pos	sition)		13	
occu	JPANTS A	\GE					5 months	000	
SEAT	ING POSI 1 - LEFT 2 - CENT 3 - CENT 4 - RIGH	TER 1 (f TER 2	irst per	son in (	center =;	2)	oed .	 4	j
SEAT	ING ROV F - FROI B - BACI	TV						E	
occi	JPANT FA Y - YES N - NO	ATAL						N	
	BDY REG 1. <u>#</u>	ASP R	OIC LES	SYS/ ORG	INJU	INJURY SOURCE 180	DIRECT/ INDIRECT —{	DATA SOURCE	
	2. <u>#</u> 3. <u>#</u>	<u>L</u>	<u>2</u>	B	37	<u>180</u> 188		02	
		_			<u>_</u>	180	1	02	
	5. <u>#</u>	<u>r</u>	<u>U</u>	B	3	180	<del>-</del>	02	
	6								
	7								
	8								
	9								
	10								

(If no injuries, enter 0 for the first AIS and leave the rest of the OIC's blank)

11.

12.

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

			THE STATE OF THE S
1.	Primary Sampling Unit Number	12.	Speed Limit 689
2.	Case Number - Stratum 96-13		(000) No statutory limit  Code posted or statutory speed limit in kmph
3.	Vehicle Number		(999) Unknown
	VEHICLE IDENTIFICATION		mph X 1.6093 = kmph
4.	Vehicle Model Year Code the last two digits of the model year (99) Unknown	13.	Police Reported Alcohol Presence For Driver (0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present
5.	Vehicle Make (specify): 2 4		(9) Unknown
	Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown	14.	Alcohol Test Result For Driver Code actual value (decimal implied before first digit – 0.xx) (95) Test refused
6.	Vehicle Model (specify):  Way 5W7  Applicable codes are found in your NASS Data Collection, Coding and Editing Manual.		<ul><li>(96) None given</li><li>(97) AC test performed, results unknown</li><li>(98) No driver present</li><li>(99) Unknown</li></ul>
	(999) Unknown		Source:
7.	Body Type Note: Applicable codes may be found on the back of this page.	15.	Police Reported Other Drug Presence For Driver  (0) No other drug(s) present  (1) Yes other drug(s) present
8.	Vehicle Identification Number		(7) Not reported (8) No driver present (9) Unknown
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17  Left justify; Slash zeros and letter Z (0 and Z)	16.	Other Drug Specimen Test Result For Driver  (0) No specimen test given
	No VIN—Code all zeros Unknown—Code all nines		(1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify):
9.	Vehicle Special Use (This Trip) (0) No special use (1) Taxi		(3) Specimen test given, results unknown or not obtained
	<ul><li>(2) Vehicle used as school bus</li><li>(3) Vehicle used as other bus</li></ul>		<ul><li>(8) No driver present</li><li>(9) Unknown if specimen test given</li></ul>
	(4) Military (5) Police	17.	Driver's Zip Code
	(6) Ambulance (7) Fire truck or car		(00001) Driver not a resident of U.S. or territories
	(8) Other (specify):(9) Unknown OFFICIAL RECORDS		Code actual 5-digit zip code (99998) No driver present (99999) Unknown
10.	Police Reported Vehicle Disposition /	10	
	(0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	18.	Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic)
11.	Police Reported Travel Speed Code to the nearest kmph (NOTE: 000 means 1 less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown		<ul> <li>(4) Black (Hispanic)</li> <li>(5) American Indian, Eskimo or Aleut</li> <li>(6) Asian or Pacific Islander</li> <li>(7) Other (specify):</li> <li>(8) No driver present</li> </ul>
	mph X 1.6093 = kmph		(9) Unknown

	PRECRASH ENVIRONMENTAL DATA			
		25.	Roadway Surface Condition	- / -
19.	Relation To Interchange Or Junction	ŀ	(1) Dry	
	(0) Non-interchange area and non-junction		(2) Wet	
	(1) Interchange area related		(3) Snow or slush	
		İ	(4) Ice	
	Non-Interchange junctions		(5) Sand, dirt, or oil	
	(2) Intersection related		(8) Other (specify):	
	(3) Driveway, alley access related	l	(9) Unknown	
	(4) Other junction (specify)			J
	, , , a see jamas (opcon),	٦	Links O Wat	<
	(5) Unknown type of junction	∠0.	Light Conditions	<u> </u>
	, , , , , , , , , , , , , , , , , , ,		(1) Daylight	
	(9) Unknown		(2) Dark	
			(3) Dark, but lighted	
			(4) Dawn	
20.	Trafficway Flow		(5) Dusk (9) Haling and (9)	
	(O) Not physically divided (two way traffic)	l	(9) Unknown	
	(1) Divided trafficway-median strip without	ł		
	positive barrier	۱,_	A	_
	(2) Divided trafficway-median strip with positive	27.	Atmospheric Conditions	0
	barrier barrier		(0) No adverse atmospheric-related driving	
	(3) One way traffic	l	conditions	
	(9) Unknown		(1) Rain	l
			(2) Sleet/hail	
	1	1	(3) Snow	
21.	Number Of Travel Lanes		(4) Fog	
	(1) One		(5) Rain and fog	
	(2) Two		(6) Sleet and fog	
	(3) Three		(7) Other (e.g., smog, smoke, blowing sand of	r
	(4) Four	ĺ	dust, etc.) (specify):	
	(5) Five		(9) Unknown	
	(6) Six (7) Seven or more		(5) CHRIGATI	
	(9) Unknown	28.	Traffic Control Device	1)
	(3) Shkilowii		(O) No traffic control(s)	<u> </u>
	ţ		(1) Traffic control signal (not RR crossing)	
22.	Roadway Alignment		the same of the same that the same same	
	(1) Straight		Regulatory	
	(2) Curve right		(2) Stop sign	
	(3) Curve left		(3) Yield sign	
	(9) Unknown		(4) School zone sign	
	1		(5) Other regulatory sign (specify):	
23.	Roadway Profile			
	(1) Level		(6) Warning sign (not RR crossing)	
	(2) Uphill grade (>2%)		(7) Unknown sign	
	(3) Hill crest	ŀ	(8) Miscellaneous/other controls including RR	
	(4) Downhill grade (>2%)		controls (specify):	
	(5) Sag		(O) Hales	i
	(9) Unknown		(9) Unknown	
24.	Roadway Surface Type	29	Traffic Control Device Functioning	$\beta$
	(1) Concrete		(0) No traffic control device	<u> </u>
	(2) Bituminous (asphalt)	1	(1) Traffic control device not functioning	
	(3) Brick or block	l	(specify):	
	(4) Slag, gravel, or stone			
	(5) Dirt		(2) Traffic control device functioning properly	
	(8) Other (specify):		(9) Unknown	
	(9) Unknown	l		
		I		

	PRECRASH DRIVER RELATED DATA	THIS VEHICLE TRAVELLING
30. [	Driver's Distraction/Inattention To Driving	(10) Over the lane line on left side of travel lane
(	(Prior To Recognition Of Critical Event)	
ì	(00) No driver present	(11) Over the lane line on right side of travel lane
	(01) Attentive or not distracted	(12) Off the edge of the road on the left side
ì	(02) Looked but did not see	(13) Off the edge of the road on the right side
•		(14) End departure
	Distractions	(15) Turning left at intersection
(	(03) By other occupant(s), (specify):	(16) Turning right at intersection
,	(0.4)	(17) Crossing over (passing through) intersection
(	(04) By moving object in vehicle (specify):	(18) This vehicle decelerating
,	(OE) Marilo Adlicio de Baracio de Maria de Maria	(19) Unknown travel direction
(	(05) While talking or listening to cellular phone (specify	
	location and type of phone):	OTHER MOTOR VEHICLE IN LANE
,	(06) Mile dicling collular shape (analysis to satisfy	(50) Other vehicle stopped
(	(06) While dialing cellular phone (specify location and	(51) Traveling in same direction with lower steady
	type of phone):	speed
,	(07) Mile adjusting alimate controls	(52) Traveling in same direction while decelerating
}	(07) While adjusting climate controls	(53) Traveling in same direction with higher speed
'	(08) While adjusting radio, cassette, CD (specify):	(54) Traveling in opposite direction
,	(00) \Albita using other device/controls integral to web id-	(EE) In annual
'	(09) While using other device/controls integral to vehicle (specify):	(56) Backing
1	(10) While using or reaching for device/object brought	(59) Unknown travel direction of other motor vehicle in
'	into vehicle (enecity):	lane
1	into vehicle (specify):(11) Sleepy or fell asleep	
}	(11) Distracted by outside person, object, or event	OTHER MOTOR VEHICLE ENCROACHING INTO
,	(specify):	LANE
1	(13) Eating or drinking	(60) From adjacent lane (same direction)—over left lane
<i>\</i>	(14) Smoking related	line
7	(97) Distracted/inattentive, details unknown	(61) From adjacent lane (same direction)—over right
7	(98) Other, distraction (specify):	lane line
,	(00) Culci, distraction (specify).	
(	(99) Unknown	(62) From opposite direction—over left lane line
		(63) From opposite direction—over right lane line
31. <u>F</u>	Pre-Event Movement (Prior to	(64) From parking lane
	Recognition of Critical Event)	(65) From crossing street, turning into same direction
	(00) No driver present	(66) From crossing street, across path
9	(01) Going straight	(67) From crossing street, turning into opposite direction
9	(02) Decelerating in traffic lane	(68) From crossing street, intended path not known
9	(03) Accelerating in traffic lane	(70) From driveway, turning into same direction
9	(04) Starting in traffic lane	(71) From driveway, across path
9	(05) Stopped in traffic lane	(72) From driveway, turning into opposite direction
9	(06) Passing or overtaking another vehicle	(73) From driveway, intended path not known
9	(07) Disabled or parked in travel lane	(74) From entrance to limited access highway
9	(08) Leaving a parking position	(78) Encroachment by other vehicle—details unknown
	(09) Entering a parking position	•
	(10) Turning right	PEDESTRIAN, PEDALCYCLIST, OR OTHER
	(11) Turning left	NONMOTORIST
	(12) Making a U-turn	(80) Pedestrian in roadway
· · · · · ·	(13) Backing up (other than for parking position) (14) Negotiating a curve	(81) Pedestrian approaching roadway
	(15) Changing lanes	(82) Pedestrian—unknown location
	(16) Merging lailes	(83) Pedalcyclist or other nonmotorist in roadway
7	(17) Successful avoidance maneuver to a previous	(specify):
,	critical event	(84) Pedalcyclist or other nonmotorist approaching
(	(97) Other (specify):	roadway, (specify):
	(99) Unknown	(85) Pedalcyclist or other nonmotorist—unknown
	• •	location (specify):
	Critical Precrash Event	- (
•	THIS VEHICLE LOSS OF CONTROL DUE TO:	OBJECT OR ANIMAL
	(01) Blow out or flat tire	(87) Animal in roadway
(	(02) Stalled engine	(88) Animal approaching roadway
(	(03) Disabling vehicle failure (e.g., wheel fell off)	(89) Animal—unknown location
	(specify):	(90) Object in roadway
(	(04) Non-disabling vehicle problem (e.g., hood flew up)	(91) Object approaching roadway
	(specify):	- (92) Object—unknown location
(	(05) Poor road conditions (puddle, pot hole, ice, etc.)	(98) Other critical precrash event (specify):
	(specify):	(30) Outer Gludal prediasti event (specity):
(	(06) Traveling too fast for conditions	(99) Unknown
(	(08) Other cause of control loss (specify):	(00) CHAICWIT
	(09) Unknown cause of control loss	.
	(Val. DIKROWI) CAUSE OF CONTOLINGS	

33. Attempted Avoidance Maneuver (00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering right (12) Accelerating and steering right (98) Other action (specify):	35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown  36. Accident Type (Note: Applicable codes on back of this page)
34. Pre-Impact Stability  (0) No driver present  (1) Tracking  (2) Skidding longitudinally—rotation less than 30 degrees  (3) Skidding laterally—clockwise rotation  (4) Skidding laterally—counterclockwise rotation  (7) Other vehicle loss-of-control (specify):  (9) Precrash stability unknown	(00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify):  (99) Unknown

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

	OCCUPANT RELATED	44.	Vehicle Cargo Weight to pearest 0000
37.	Driver Presence in Vehicle		Code weight to nearest 10 kilograms.
	(0) Driver not present		(000) Less than 5 kilograms
	(1) Driver present (9) Unknown		(454) 4,536 kilograms or more
			(999) Unknown
38.	Number of Occupants This Vehicle 0		, lbs X .4536 =, kgs
	(00-96) Code actual number of occupants		Source:
	for this vehicle (97) 97 or more		ROLLOVER DATA
	(99) Unknown	45	Rollover
20	Number of Occupant Forms Submitted	45.	(00) No rollover (no overturning)
39.	Number of Occupant Forms Submitted U		Rollover (primarily about the longitudinal axis)
	AIR BAG RELATED	(0	)1-16) Code the number of quarter turns
40.	Is this an AOPS Vehicle?		(17) Rollover, 17 or more quarter turns (specify):
	(0) No (includes unknown)		(98) Rolloverend-over-end (i.e., primarily
	<ul><li>(1) Yes - researcher determined</li><li>(2) VIN determined air bag system</li></ul>		about the lateral axis)
	(3) VIN determined automatic (passive) belts		(99) Rollover (overturn), details unknown
	(4) VIN determined air bag and automatic	46.	Rollover Initiation Type
	(passive) belts		(00) No rollover
41.	Air Bag(s) Deployment, First Seat Frontal		(01) Trip-over (02) Flip-over
	(0) Not equipped or not available (1) No air bags deployed		(03) Turn-over
	Single Air Bag Vehicle		(04) Climb-over (05) Fall-over
	(2) Driver air bag deployed		(06) Bounce-over
	(3) Driver air bag, unknown if deployed		(07) Collision with another vehicle
	Multiple Air Bag Vehicle		(08) Other rollover initiation type specify):
	<ul><li>(4) Driver side only deployed</li><li>(5) Passenger side only deployed</li></ul>		(98) Rolloverend-over-end
	(6) Driver and passenger side deployed		(99) Unknown rollover initiation type
	(7) Driver and passenger side unknown if	47.	Location of Rollover Initiation
	deployed (8) Air bag(s) deployed, details unknown		(0) No rollover
	(9) Unknown		(1) On roadway (2) On shoulder—paved
12	Air Bag(s) Deployment, Other Than First		(3) On shoulder—unpaved
72.	Seat Frontal		(4) On roadside or divided trafficway median (8) Rolloverend-over-end
	(0) Not equipped with an "other" air bag		(9) Unknown
	(1) Deployed during accident (as a result of impact)	40	Della contain and an analysis of the second
	(2) Deployed inadvertently just prior to accident	40.	Rollover Initiation Object Contacted (Note: Applicable codes on back of page)
	<ul><li>(3) Deployed, details unknown</li><li>(4) Deployed as a result of a noncollision event</li></ul>		
	during accident sequence (e.g., fire,	49.	Location on Vehicle Where Initial Principal Tripping Force Is Applied
	explosion, electrical)		(0) No rollover
	(5) Unknown if deployed (7) Nondeployed		(1) Wheels/tires
	(9) Unknown		(2) Side plane (3) End plane
	Specify type of "other" air bag present:		(4) Undercarriage
			(5) Other location on vehicle (specify):
			(6) Non-contact rollover forces (specify):
	VEHICLE WEIGHT ITEMS		(8) Rolloverend-over-end
	AT HOST AND A CHARLE OF EMIS		(9) Unknown
42	Vehicle Cosh Weight	50.	Direction of Initial Roll
43	Vehicle Curb Weight Code weight to nearest		(0) No rollover
	10 kilograms.		(1) Roll right - primarily about the longitudinal axis
	(045) Less than 454 kilograms (612) 6,124 kilograms or more		(2) Roll left - primarily about the longitudinal
	(999) Unknown		axis (8) Rolloverend-over-end
	, lbs X .4536 =, kgs		(9) Unknown roll direction
	Source:		
		ŀ	I

OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS
51. Front Override/Underride (this Vehicle)	HIGHEST DELTA V
52. Rear Override/Underride (this Vehicle)  (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles	58. Basis for Total (Resultant) Delta V (highest)
and no medium/heavy truck or bus underride	(00) No vehicle inspection
Override (see specific CDC)  [Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)  (1) 1st CDC  (2) 2nd CDC  (3) Other not automated CDC (specify):	Delta V Calculated  (01) Reconstruction program-damage only routine (02) Reconstruction program-damage and trajectory routine (03) Missing vehicle algorithm
Underride (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)] (4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	Delta V Not Calculated  (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
<ul><li>(7) Medium/heavy truck or bus override (of any configuration)</li><li>(9) Unknown</li></ul>	All vehicles within scope (CDC applicable) of reconstuction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable
HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V	reconstruction program of other acceptable reconstruction technique, regardless of adequacy of damage data.
Values: (000)-(359) Code actual value (996) Non-horizontal impact (997) Noncollision (998) Impact with object (999) Unknown	(05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override (09) Yielding object
53. Heading Angle For This Vehicle 3 / 5	(10) Overlapping damage (11) All vehicle and collision conditions are within
54. Heading Angle For Other Vehicle 191	scope of one of the acceptable
RECONSTRUCTION DATA  55.Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit (9) Unknown	reconstruction programs, but there is insufficient data available, (specify):
56. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	(98) Other, (specify):
<ul> <li>57. Post Collision Condition of Tree or Pole (For Highest Delta V)</li> <li>(0) Not collision (for highest delta V) with tree or pole</li> <li>(1) Not damaged</li> <li>(2) Cracked/sheared</li> <li>(3) Tilted &lt;45 degrees</li> <li>(4) Tilted ≥45 degrees</li> <li>(5) Uprooted tree</li> <li>(6) Separated pole from base</li> <li>(7) Pole replaced</li> <li>(8) Other (specify):</li> </ul>	
(9) Unknown	

COMPUTER GENER	TED CRASH SEVERITY					
Highes 59. Total Delta V  ————— Nearest kmph (highest)	63. Impact Speed					
Nearest kmph (secondary)	Nearest kmph (secondary)					
(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown  Highes 60. Longitudinal Component of +	(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown					
Delta V ———————————————————————————————————	DELTA V CONFIDENCE LEVEL					
Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown	64. Confidence In Reconstruction Program Results (For Highest Delta V)  (0) No reconstruction (1) Collision fits model — results appear reasonable  (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable					
61. Lateral Component of Delta V +	OTHER SPEED ESTIMATE					
Nearest kmph (highest)  Nearest kmph (secondary)	65. Barrier Equivalent Speed					
(NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown  Highest	Nearest kmph (highest)  Nearest kmph (secondary)  (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown					
62. Energy Absorption	o					
Nearest 100 joules (highest)  Nearest 100 joules (secondary)	·					
(NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown						

ESTIMATED DELTA V	INSPECTION TYPE
66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded  Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph  Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown	67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): (3) Complete inspection  DELTA V EVENT NUMBER  68. Delta V Event Number  Code the accident event sequence number that resulted in the Delta V that has been coded above for this vehicle (99) Unknown
	VAS NOT INSPECTED (I.E., GV67=0), *** OR AND INTERIOR VEHICLE FORMS

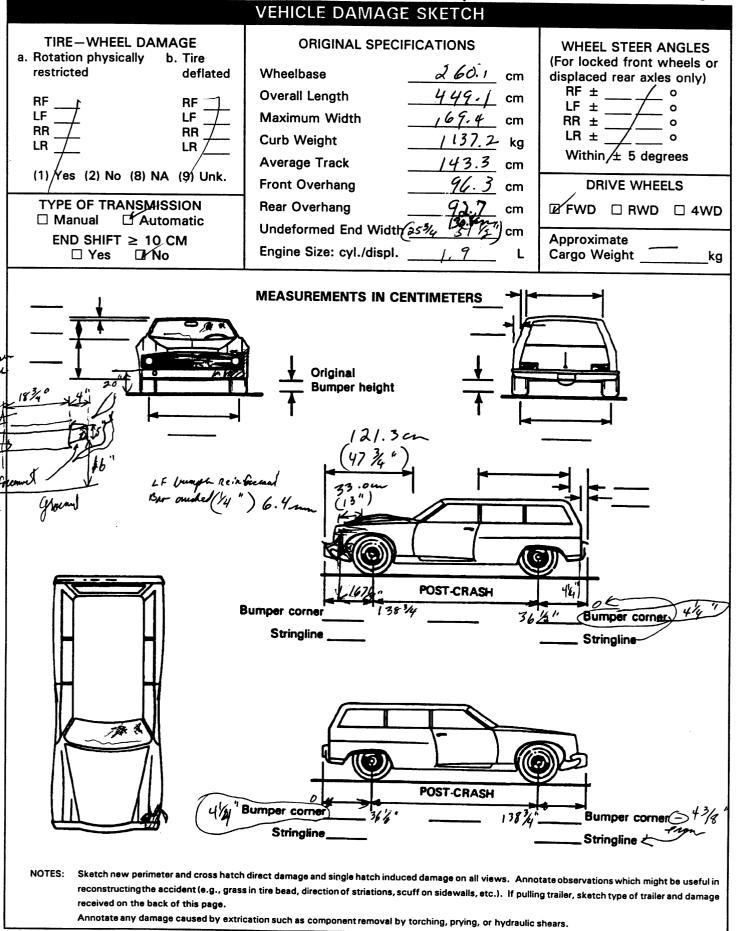
\*\*\* IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE \*\*\* THE EXTERIOR VEHICLE, INTERIOR VEHICLE, OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

U.S. Department of Transportation
National Highway Traffic Safety
Administration

# **EXTERIOR VEHICLE FORM**

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

								CRAS	HWORTHI	NESS DAT	A SYSTE	
1. Prima	ary Sampling Unit No	umber		_   a	3. Vehic	le Numb	per				<u> </u>	
2. Case	Number - Stratum	9	6-1	3								
VEHICLE IDENTIFICATION												
VIN	VIN 1 G 8 Z K 8 2 7 8 T Z											
Vehicle M	lake (specify): 544		Vehicle Model (specify): 40 r Wagon									
LOCATOR Houn Date 6/9%												
Locate the	Locate the end of the damage with respect to the vehicle's damaged center point or bumper corner for end impacts or an undamaged axle for side impacts.											
Specific Imp	eact No. Location	of Direct Dama			Locatio	n of Field	L		Location of Max Crush			
1	15" Qg	∉		reasured	alony en	tuition	tal la		= Bung			
					U							
	Identify the plane at		SH PROF									
impacts.  Free space value is defined as the distance between the baseline and the original both the individual C locations. This may include the following: bumper lead, bumper tap side taper, etc. Record the value for each C-measurement and maximum crush.  Use as many lines/columns as necessary to describe each damage profile.								body co aper, si	ntour ta de protr	aken a rusion,		
Specific     Impact   Plane of Impact	Direct D Width	amage Max	ا دنماط					_				
Number	C-Measurements	ICDC)_	Crush	Field L	C <sub>1</sub>	C <sub>2</sub>	0.6 <sub>3</sub>	C4	3.8m	C <sub>6</sub>	±D	
1	Bunjar Coul	(12.07)	CI	(52.0)	8.01.	(2.50	(5/8')	(3/8")	7 1 1	438"	916.75	
	Resuttent				4.4"	اکسی ۱۰	0.4"	0.4"	1.5	4.4	42.5	
					(3.6 4)	(1")	(0.27	0	0	0		
	Resultant				9.1cm	2.5m	0.54	U	0	0		
											·	
										<del></del>		



CDC WORKSHEET											
CODES FOR OBJECT CONTACTED											
(01-30)	(01-30) — Vehicle Number (57) Fence										
						Wall					
Noncoll				15		Building					
(31)	Overturn — ı	rollover (excludes	end-over-e	nd) (6	(03	Ditch or	culvert				
	Rollover-en		(6	31)	Ground						
(33)	Fire or explos	sion		(6	32)	Fire hyd	rant				
	Jackknife			(6	3)	Curb					
(35)	Other intraur	nit damage (speci	fy):			Bridge					
126)	Noncelliaian		(6	(8	Other fix	xed object (	specify):				
(30)	Noncollision	injury lision (specify):									
				(6	(9)	Unknow	n fixed obje	ect			
(39)	Noncollision	<ul> <li>details unknown</li> </ul>	wn	Colli	sior	n with <b>N</b> o	onfixed Obje	ect			
Callia!a.	- 14 <i>0</i> 11 <b>-</b> 14			(7	O)	Passeng	er car, light	truck, van,	or other		
COIIISIOI	n With Fixed (	Object				vehicle r	not in-transi	oort			
(41)	Tree (≤ 10 cr	m in diameter)		(7	1)	Medium,	/heavy truc	k or bus not	in-transport		
(42)	Shrubbanian	m in diameter)		(7	(2)	Pedestri	an		•		
(43)	Shrubbery or Embankment	busn		(7	(3)	Cyclist o	or cycle				
				(7	4)	Other no	onmotorist o	or conveyan	ce		
(45)	Breakaway p	ole or post (any	diameter)	(7	5)	Vehicle Animal	occupant				
Nonbrea	akaway Pole d	r Post				Train					
(50)	Pole or post	(≤ 10 cm in diam	eter)				disconnects	d in transma			
(51)	Pole or post	(> 10 cm but ≤	30 cm in	(7	91	Trailer, disconnected in transport Object fell from vehicle in-transport					
	diameter)			(8)	8)	Other nonfixed object (specify):					
(52)	(52) Pole or post (> 30 cm in diameter)				•,	0 11101 110	omined obje	ct (specify).			
(53)	Pole or post (	diameter unknov	vn)	(8	9)	Unknow	n nonfixed	object			
	Concrete traf			(9	8)	Other ev	ent (specify	/):			
(56)	Impact attenue Other traffic	uator barrier (includes :	guardrail)				n event or o		<del></del>		
	(specify):			·							
		DEFORMA*	TION CLASS	IFICATION E	SY E	VENT N	UMBER				
Accident							(5)				
Event		(1) (2) Direction	Imana			Specific	Specific	(6)			
Sequence	Object	of Force	Incremental Value of	(3) Deformation		ngitudinal Lateral	Vertical or	Type of	(7)		
Number	Contacted	(degrees)	Shift	Location		ocation	Lateral Location	Damage	Deformation		
		1 0						Distribution	Extent		
0 1	2	+30		F			E	Ĕ	01		
							<del></del>				
							<del></del>				
					-						

	COLLISION DEFORMATION CLASSIFICATION						
HIGHEST	DELTA "V"						
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. <u>0</u>	5. <u>0</u>	6	7. <u> </u>	8. <u> </u>	9	10. <u>E</u>	11. 0 /
Second Highest Delta "V"							
12	13	14	15	16	17	18	19
		CRUS	H PROFILE	IN CENTIM	FTFRS		
The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. (ALL MEASUREMENTS ARE IN CENTIMETERS.)							
HIGHEST DELTA "V"							
20. L	21. 		C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>	±D
131	009	003	201	DOU _	500 O	00 0	043
Second Hig	jhest Delta "V"	•					
23. 	24. 			C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub> -	5. <u>±</u> D
						<u>+</u>	
(Coded impact i (250) (998) I	med End Width when highest so so an end plane of the nea 250 centimeters No highest seven unknown	everity impact.) rest centimeter s or more		(650)	Wheelbase Code to the neacentimeter 650 centimeter Unknown inches X 2	s or more	260
(For high ( (250) 2	amage Width nest severity im Code to the nea 250 centimeters Jnknown	rest centimeter	031	(185)	Average Track Code to the nearest centime 185 centimeter Unknown	eter s or more	Centimeters

	2	FUEL SYSTEM
30. Are CDCs Documented but Not Coded on The	_0	35. Location of Fuel Tank-1 Filler Cap
Automated File? (0) No (1) Yes		36. Location of Fuel Tank-2 Filler Cap (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle)
31. Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown  32. Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify):	<u>D</u>	on left side plane  (3) Aft of center of the rear wheels (rear axle) on right side plane  (4) Forward of center of the rear wheels (rear axle) on left side plane  (5) Forward of center of the rear wheels (rear axle) on right side plane  (6) Over the center of the rear wheels (rear axle) on left side plane  (7) Over the center of the rear wheels (rear axle) on right side plane  (8) Other (specify):  (9) Unknown
(Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified		38. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown
FIRE OCCURRENCE		39. Location of Fuel Tank-1
33. Fire Occurrence (0) No fire  Yes, fire occurred (1) Minor (2) Major (9) Unknown		40. Location of Fuel Tank-2 (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered
<ul> <li>34. Origin of Fire <ul> <li>(0) No fire</li> <li>(1) Vehicle exterior (front, side, back, top)</li> <li>(2) Exhaust system</li> <li>(3) Fuel tank (and other fuel retention system parts)</li> <li>(4) Engine compartment</li> <li>(5) Cargo/trunk compartment</li> <li>(6) Instrument panel</li> <li>(7) Passenger compartment area</li> <li>(8) Other location (specify):</li> </ul> </li> <li>(9) Unknown</li> </ul>	<u>ð</u>	axle) centered  (5) Forward of center of the rear wheels (rear axle) left side  (6) Forward of center of the rear wheels (rear axle) right side  (7) Over center of the rear wheels (rear axle)  (8) Other (specify):  (9) Unknown  41. Damage to Fuel Tank-1  42. Damage to Fuel Tank-2  (0) No fuel tank  (1) No damage to fuel tank  (2) Deformed, no seam failure  (3) Deformed, with a seam failure  (4) Punctured  (5) Lacerated (ripped)  (6) Abraded (scraped)  (7) Filler neck separation from the fuel tank  (8) Other damage (specify):  (9) Unknown
	ľ	

					. ugo c
43.	Leakage Location of Fuel System-1	· ]	47. Is T	his Vehicle Equipped With More Than	Ö
44.	Leakage Location of Fuel System-2			Fuel Tanks? No (one or two tanks only)	
	(0) No fuel tank (1) No fuel leakage			- More Than Two Tanks	
				Yes no damage to any tank or filler	
	Primary Area Of Leakage (2) Tank			cap and <u>no fuel system leakage</u>	
	(3) Filler neck		(2)	Yes no damage to any tank or filler cap but there is fuel system leakage	
	(4) Cap			(specify leakage location):	
	<ul><li>(5) Lines/pump/filter</li><li>(6) Vent/emission recovery</li></ul>		(0)	V	_
	(8) Other (specify):		(3)	Yes damage to an additional tank or filler cap and there is fuel system leakage	
	(9) Unknown			(specify the following):	<u>1e</u>
				Type of tank	
45.	Fuel Type-1	al		i alik location	
	. 35. 7,95			Tank damage	
46.	Fuel Type-2	07		Location of leakage	-
	Single Fuel Type			Type of fuel	
	Single Fuel Type (00) No fuel tank		(9)	Unknown if more than two tanks	
	(01) Gasoline				
	(02) Diesel				
	(03) CNG (Compressed Natural Gas) (04) LPG (Liquid Petroleum Gas) also			COMMENTS	
	known as Propane	:			
	(05) LNG (Liquid Natural Gas)				
	(06) Methanol (M100 or M85) (07) Ethanol (E100 or E85)				
	(08) Other (Hydrogen or others) (specify):				
	- Control of Control o	<del></del>			
	Electric Powered or Electric/Solar				
	Powered Vehicles				
	(10) Lead Acid Battery (11) Nickel-Iron Battery				
	(12) Nickel-Cadmium Battery				
	(13) Sodium Metal Chloride Battery				
	(14) Sodium Sulfur Battery (18) Other (Specify):				
	(98) Other Hybrid (specify):				
	(99) Unknown fuel type				
			-		
	*** STOD. IF THE ODG AD	.=			1

\*\*\* STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED \*\*\*

(GV10=0)

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

# **INTERIOR VEHICLE FORM**

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number	GLAZING
2. Case Number - Stratum 96-13	Type of Window/Windshield Glazing
O. Vahiala Norrek	15. WS/_16. LF217. RF18. LR
	20. BL 2 21. Roof <u>0</u> 22. Other 2
INTEGRITY	
4. Passenger Compartment Integrity (00) No integrity loss  Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof (05) Roof glass (06) Side window (07) Rear window (backlight) (08) Roof and roof glass (09) Windshield and door (side) (10) Windshield and roof (11) Side and rear window (side window and backlight) (12) Windshield and side window (13) Door and side window (98) Other combination of above (specify):	(0) No glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted (original) (4) AS-2 — Tempered-with after market tint (5) AS-3 — Tempered-tinted (with additional after market tint) (6) AS-14 — Glass/Plastic (7) Glazing removed prior to accident (8) Other (specify): (9) Unknown  Window Precrash Glazing Status  23. WS 24. LF 25. RF 26. LR 27. RR  28. BL 29. Roof 30. Other (O) No glazing (1) Fixed (2) Closed (3) Partially opened (4) Fully opened
Door, Tailgate or Hatch Opening	(7) Glazing removed prior to accident (9) Unknown Glazing Damage from Impact Forces
5. LF <u>/</u> 6. RF <u>/</u> 7. LR <u>(</u> 8. RR <u>/</u> 9. TG/H <u>/</u>	31. WS <u>1</u> 32. LF <u> </u> 33. RF <u> </u> 34. LR <u> </u> 35. RR <u> </u>
(0) No door/gate/hatch (1) Door/gate/hatch remained closed and operational (2) Door/gate/hatch came open during collision (3) Door/gate/hatch jammed shut (8) Other (specify): (9) Unknown  Damage/Failure Associated with Door, Tailgate or Hatch	36. BL / 37. Roof O 38. Other/  (0) No glazing (1) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from impact forces (5) Glazing out-of-place and holed from impact forces (6) Glazing disintegrated from impact forces
Opening in Collision. If IV05-IV09 ≠ 2, Then code Ø	<ul><li>(7) Glazing removed prior to accident</li><li>(9) Unknown if damaged</li></ul>
10. LF <u>0</u> 11. RF <u>0</u> 12. LR <u>0</u> 13. RR <u>0</u> 14. TG/H <u>0</u>	Glazing Damage from Occupant Contact
(0) No door/gate/hatch or door not opened	39. WS <u>3</u> 40. LF <u>/</u> 41. RF <u>/</u> 42. LR <u>/</u> 43. RR <u>/</u>
Door, Tailgate or Hatch Came Open During Collision (1) Door operational (no damage) (2) Latch/striker failure due to damage (3) Hinge failure due to damage (4) Door structure failure due to damage (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage (6) Latch/striker and hinge failure due to damage (8) Other failure (specify):	<ul> <li>44. BL</li></ul>

# Row Width (cm) | Temporal | Longitudinal | Longitud

LOCATION OF INTRUSION	INTRUDED COMPONENT	(All Meass COMPARISON VALUE —	urements Are In Centimeters INTRUDED VALUE =	INTRUSION	DOMINANT CRUSH DIRECTION
		_	=		
		_	. =	· · · · · · · · · · · · · · · · · · ·	
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		_	=		

# OCCUPANT AREA INTRUSION

Note: If no intrusions, leave variables IV47-IV86 blank.

Note: If no intrusions, leave variables IV47-IV86 blank.								
	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction				
1st	47	12trus, 2 48	•n_ _ 49	50				
2nd	51	52	_ 53	54				
3rd	55	56	_ 57	58				
4th	59	60	_ 61	62				
5th	63	64	_ 65	66				
6th	67	68	_ 69	70				
7th	71	72	_ 73	74				
8th	75	76	_ 77	78				
9th	79	80	_ 81	82				
10th	83	84	_ 85	86				

### LOCATION OF INTRUSION

(32) Middle

(33) Right

Front Seat	Fourth Seat	
(11) Left	(41) Left	
(12) Middle	(42) Middle	
(13) Right	(43) Right	
Second Seat	(97) Catastrophic	
(21) Left	(98) Other enclosed	
(22) Middle (23) Right	area (specify)	
•	(99) Unknown	-
Third Seat	(==, ==	
(31) Left		

## **INTRUDING COMPONENT**

## Interior Components

- (01) Steering assembly
- (02) Instrument panel left
- (03) Instrument panel center
- (04) Instrument panel right
- (05) Toe pan
- (06) A (A1/A2)-pillar
- (07) B-pillar
- (08) C-pillar
- (09) D-pillar
- (10) Side panel forward of the A1/A2-pillar
- (11) Door panel (side)
- (12) Side panel rear of the B-pillar
- (13) Roof (or convertible top)
- (14) Roof side rail
- (15) Windshield
- (16) Windshield header
- (17) Window frame
- (18) Floor pan (includes sill)
- (19) Backlight header
- (20) Front seat back
- (21) Second seat back
- (22) Third seat back
- (23) Fourth seat back
- (24) Fifth seat back
- (25) Seat cushion
- (26) Back door/panel (e.g., tailgate)
- (27) Other interior component (specify):

## Exterior Components

- (30) Hood
- (31) Outside surface of this vehicle (specify):
- (32) Other exterior object in the environment (specify):\_\_\_\_\_
- (33) Unknown exterior object
- (97) Catastrophic
- (98) Intrusion of unlisted component(s) (specify):
- (99) Unknown

## MAGNITUDE OF INTRUSION

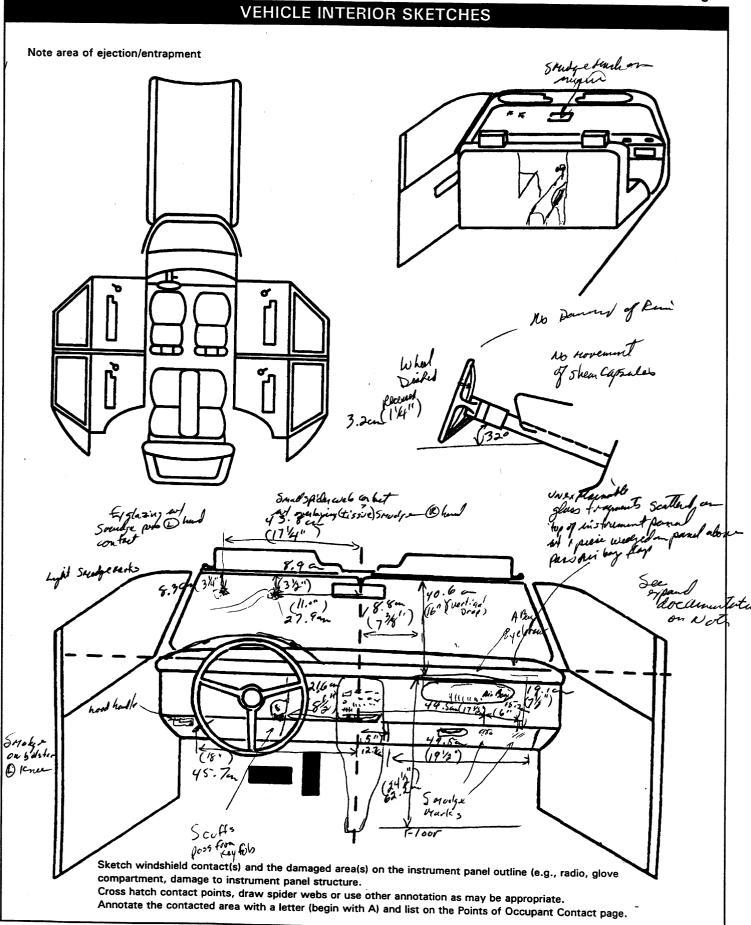
- (1) ≥ 3 centimeters but < 8 centimeters
- (2) ≥ 8 centimeters but < 15 centimeters
- (3) ≥ 15 centimeters but < 30 centimeters
- (4) ≥ 30 centimeters but < 46 centimeters
- (5) ≥ 46 centimeters but < 61 centimeters
- (6) ≥ 61 centimeters
- (7) Catastrophic
- (9) Unknown

## DOMINANT CRUSH DIRECTION

- (1) Vertical
- (2) Longitudinal
- (3) Lateral
- (7) Catastrophic
- (9) Unknown

S	TEERING	RIM/SPOKE DEFO	RMATIO	N
	(All I	Measurements Are in Centimet	ters)	
COMPARISON VALUE		DAMAGE VALUE	=	DEFORMATION
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				•

STEERING COLUMN	INSTRUMENT PANEL
87. Steering Column Type (1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify): (9) Unknown	92. Odometer Reading
88. Tilt Steering Column Adjustment (0) No tilt steering column (1) Full up (2) Between full up and center (3) Center (4) Between center and full down (5) Full down (9) Unknown	Source:  93. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown  94. Type of Knee Bolster Covering (0) No knee bolster
89. Telescoping Steering Column Adjustment (0) No telescoping steering column (1) Full back (2) Between full back and midpoint (3) Midpoint (4) Between midpoint and full forward (5) Full forward (9) Unknown	(1) Padded (2) Rigid plastic (8) Other (specify): (9) Unknown  95. Knee Bolsters Deformed from Occupant Contact? (0) No knee bolster (1) No deformation (2) Yes - deformation (9) Unknown
90. Steering Rim/Spoke Deformation  Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters (15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown	96. Did Glove Compartment Door Open During Collision(s)? (0) No glove compartment door (1) No - door did not open (2) Yes - door opened (9) Unknown  97. Adaptive (Assistive) Driving Equipment
91. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation  Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D  Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown	(0) No adaptive driving equipment (1) Adaptive driving equipment installed (Check all that apply.) [ ] Hand controls for braking/acceleration [ ] Steering control devices (attached to OEM steering wheel [ ] Steering knob attached to steering wheel [ ] Low effort power steering (unit or device) [ ] Replacement steering wheel (i.e., reduced diameter) [ ] Joy-stick steering controls [ ] Wheelchair tie-downs [ ] Modification to seat belts (specify): [ ] Additional or relocated switches (specify): [ ] Raised roof [ ] Wall-mounted head rest (used behind wheelchair) [ ] Other adaptive device (specify):  (9) Unknown



	POINTS OF O	CCUPANT CONTACT		
Interior Component	Occupant Region No. If If		*.	Confidence Level of Contact
Contact Contacted	Known Known	Supporting Physical I	Evidence	Point
Α				
В				
С				
D				<u> </u>
E		<del></del>		
F				<u> </u>
G				
Н				
ı				
J			****	
K				
L				
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N				
FRONT	CODES FOR IN	 ITERIOR COMPONENTS		
(001) Windshield (002) Mirror (003) Sunvisor (004) Steering wheel rim (005) Steering wheel (combination of codes 004 and 005) (007) Steering column, transmission selector lever, other attachment (008) Cellular telephone or CB radio (009) Add on equipment(e.g., tapedeck, air conditioner) (010) Left instrument panel and below (011) Center instrument panel and below (012) Right instrument panel and below (013) Glove compartment door (014) Knee bolster (015) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only) (016) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only) (017) Windshield reinforced by exterior object, (specify):	LEFT SIDE (051) Left side interior surface, excluding hardware or armrests (052) Left side hardware or armrest (053) Left A (A1/A2)-pillar (054) Left B-pillar (055) Other left pillar (specify): (056) Left side window glass (057) Left side window glass (057) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillor or roof side rail. (060) Other left side object (specify):  RIGHT SIDE (101) Right side interior surface excluding hardware or armrests (102) Right side interior surface excluding hardware or armrest (103) Right A (A1/A2)-pillar (104) Right B-pillar (105) Other right pillar (specify) (106) Right side window glass (107) Right side window glass (107) Right side window sill (109) Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillor or roof side rail. (110) Other right side object (specify):	INTERIOR (151) Seat, back support (152) Belt restraint webbing/buckle (153) Belt restraint B-pillar or door frame attachment point (154) Other restraint system component (specify):  (155) Head restraint system (160) Other occupants (specify): (161) Interior loose objects (162) Child safety seat (specify):  (163) Other interior object (specify): (170) Air bag-driver side (175) Air bag compartment cover-driver side (180) Air bag-passenger side (180) Air bag compartment cover-passenger side (190) Other air bag (specify) (195) Other air bag compartment cover (specify)  :  ROOF (201) Front header (202) Rear header (203) Roof left side rail (204) Roof right side rail (205) Roof or convertible top	REAR (301) Backlight (rear (302) Backlight stora door, etc. (303) Other rear obje  ADAPTIVE (ASSISTIVEQUIPMENT (401) Hand controls braking/acceler (402) Steering control (attached to Olymbeel) (403) Steering knob is steering wheel (405) Replacement s (i.e., reduced d (406) Joy stick steer (407) Wheelchair tie- (408) Modification to (specify): (409) Additional or re switches, (specify): (410) Raised roof (411) Wall mounted I (used behind w (412) Other adaptive (specify):  CONFIDENCE LEVEL ( POINT	age rack, act (specify):  /E) DRIVING  for ration ol devices EM steering attached to  teering wheel diameter) ing controls downs o seat belts, elocated cify):  head rest wheel chair) of device
	following: frame, window sill, A (A1/A2)-pillar, B-pill or roof side rail. (110) Other right side object	lar, FLOOR (251) Floor (including toe pan) (252) Floor or console mounted transmission lever, including console (253) Parking brake handle (254) Foot controls including	CONFIDENCE LEVEL (POINT (1) Certain (2) Probable (3) Possible (9) Unknown	OF CONTACT

			•	-		
		M	ANUAL REST	PAINITS		
NOTES	S: Encode the applicable data for Restraint systems should be a	or each se	at position in the ve	hicle The attr	ibute for the v	variable may be found below
	If a child safety seat is preser	it, encode	the data on the bac	k of this page	io 11.	ccupant Assessment Form.
	If the vehicle has automatic re					
		1	Left	Cen		Right
	A-Availability		185			Les 5
F	B-Evidence of usage		Tes			yes
I R	C-Used in this crash?		A popular to be used			to be determined
s	D-Proper Use		above Seat but has Alan	Alkaton		To be determined
T	E-Failure Modes		None			
	F-Anchorage Adjustment			All Pange = 3	8Z"	In full down pos: how
	A-Availability	1	foll up position	10 10	78	
•	B-Evidence of usage	L	<i>b</i> .	Lap		L85
Ĕ	C-Used in this crash?	N		70		NO.
ç	D-Proper Use	<del></del>		No		No
SECOND	E-Failure Modes	<del>                                     </del>				
D	F-Anchorage Adjustment	<del></del>				
	A-Availability			<del></del>		
	B-Evidence of usage					
O T	C-Used in this crash?				/	
Ĥ	D-Proper Use			ļ <i>,</i>		
E	E-Failure Modes		<del></del>			
R		<del> </del>	*	/		/
	F-Anchorage Adjustment					
	ual (Active) Belt System Availability	D-Proper	Use of Manual (Active	) Belts I	F-Shoulder Belt	Upper Anchorage Adjustment
	None available Belt removed/destroyed	(0)	None used or not ava	ailable	(0) No si	noulder belt
(2)	Shoulder belt	(1) (2)	Belt used properly Belt used properly wi	th child cafety		pper anchorage adjustment for
	Lap belt	<b>\-</b> /	seat	ter crine salety	snoul	der belt
	Lap and shoulder belt Belt available - type unknown	Pala I	Hood to a sect		Adjus	stable shoulder Belt Upper
,	zott dvanable - type drikilowii	(3)	<i>Used Improperly</i> Shoulder belt worn u	nder arm		orage I up position
Integ	gral Belt Partially Destroyed	(4)	Shoulder belt worn b	ehind back or		d position
	Shoulder belt (lap belt destroyed/removed)	(5)	seat Belt worn around mo	50 than		down position
(7)	Lap belt (shoulder belt	(0)	person	re than one		ion unknown own if position has adjustable
	destroyed/removed) Other belt (specify):	(6)	Lap belt worn on abo		uppe	r anchorage adjustment
		(7)	Lap belt or lap and st used improperly with	Oulder belt		·
(9)	Unknown		seat (specify):	·		·
B/C-Ma	nual (Active) Belt System Use	(8)	Other improper use of system (specify):	f manual belt		
(00)	None used, not available, or belt		system (specify):			
(01)	removed/destroyed Inoperable (specify):	(9)	Unknown			•••
(02)	Shoulder belt	E-Manual	(Active) Belt Failure M	lodes Du		
(03)	Lap belt	Accident		· ·		
(04) (05)	Lap and shoulder belt Belt used - type unknown	(O) (1)	No manual belt used	or not available		
(80)	Other belt used (specify):	(1) (2)	No manual belt failure			

not included)

(specify):

Unknown

Broken retractor

Broken buckle or latchplate

Upper anchorage separated

Other anchorage separated

Combination of above (specify):

Other manual belt failure (specify):

(3)

(4)

(5)

(6)

(7)

(8)

(9)

(12) Shoulder belt used with child safety

Lap belt used with child safety seat

Lap and shoulder belt used with

Belt used with child safety seat -

Other belt used with child safety

seat

child safety seat

type unknown

seat (specify):\_

Unknown if belt used

(13)

(14)

(15)

(18)

(99)

## **AUTOMATIC RESTRAINTS**

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form. AIR RAGS

		7th DAGO		
		Frontal Air BagsLeft Front	Frontal Air Bags-Right Front	OtherAir Bag
F	Availability/Function	/	/	/
Ŕ	Deployment	/	1	
5 T	Failure	1	,	

## Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

### Air Bag System Deployment (This Occupant Position)

- (0) Not equipped/not available
- Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- Unknown if deployed
- (7) Nondeployed
- (9) Unknown

## Are There Indications of Air Bag System Failure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

## AUTOMATIC BELTS

		Left	Right
F I R S T	A-Availability/Function	/	/
	B-Use		
	C-Type		
	D-Proper Use		
	E-Failure Modes		

#### A-Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

#### Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- Unknown

## **B-Automatic (Passive) Belt System Use**

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

## C-Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system (9) Unknown

## D-Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- Automatic belt used properly
- Automatic belt used properly with child safety seat

## Automatic Belt Used Improperly

- (3) Automatic shoulder belt worn under
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperly with child safety seat (specify):

- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

## E-Automatic (Passive) Belt Failure Modes **During Accident**

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- Torn webbing (stretched webbing not included)
- Broken buckle or latchplate
- Upper anchorage separated
- (5) Other anchorage separated (specify):
- Broken retractor
- Combination of above (specify):
- Other automatic belt failure (specify):
- (9) Unknown

## FIRST SEAT FRONTAL AIR BAGS

NOTES: Encode the applicable data *for the driver and first seat passenger* in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger
A-Type of air bag?	1 .	1
B-Flaps open at tear points?	2	2_
C-Flaps damaged?	2 (Scoatch in (1) flan	I Suff reads on cope from Child Find
D-Air bag damaged?	01	01
E-Source of air bag damage		_
F-Air bag tethered?	YRO	Parfiel/No
G-Air bag have vent ports?	Kes	NO
H-Other occupant contact air bag?	ND	N
I-Occupant wearing eyewear?	1	4/0

#### A-Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

# B-Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

# C-Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

#### D-Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured .
- (03) Cut
- (04) Torn
- (05) Holed (06) Burned
- (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

#### E-Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

#### F-Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- 2) Yes (specify number of tether straps):
- (3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

## G-Did The Air Bag Have Vent Ports?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

# H-Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

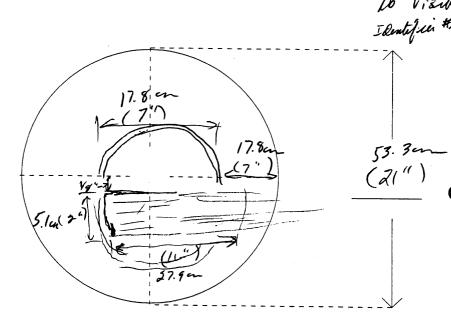
## I-Was This Occupant Wearing Eye-wear?

- (0) Not equipped/not available
- (1) No
- (2) Eyegiasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

# DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)

4 tethan

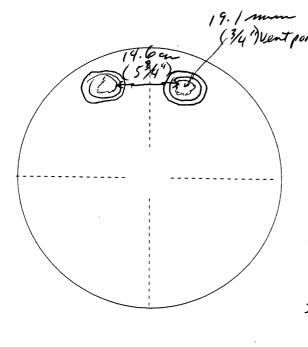


2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)

Fine Kesh Afloron boul serjace

Black

structure transfer Word a defined (D) side bey pt



LF seat found

g in full Rear position

probable mond

7" Adj Rang

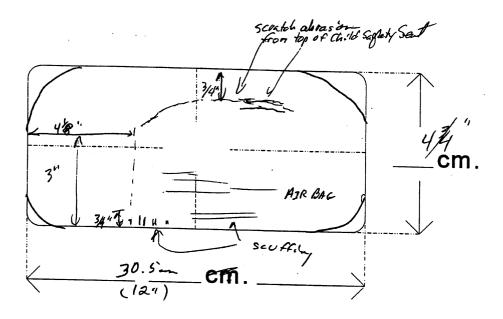
1. lon 1 (8") 20.3 cm (28") (25/2") 48.36 (19) (25/2") 57. 2 cm

# DRIVER AIR BAG SKETCHES (Cont'd) 3. DRIVER AIR BAG MODULE COVER FLAP SIZE 4. DRIVER AIR BAG MODULE COVER FLAP SIZE (SINGLE) (DOUBLE) a. Upper Flap b. Lower Flap width (W<sub>U</sub>) \_\_\_\_\_ width (W<sub>L</sub>) \_\_\_\_ width (W<sub>u</sub>) width (W<sub>L</sub>) \_\_\_\_\_ height (H) height (H<sub>U</sub>) \_\_\_\_\_ height (H<sub>L</sub>) 5. SKETCH OF OTHER TYPE OF AIR BAG MODULE 6. SKETCH OF OTHER TYPE OF AIR BAG VENT **FLAP AND SIZE** Scoatch Locale 7. SKETCH LOCATION OF CIRCULAR AIR BAG VENT **PORTS**

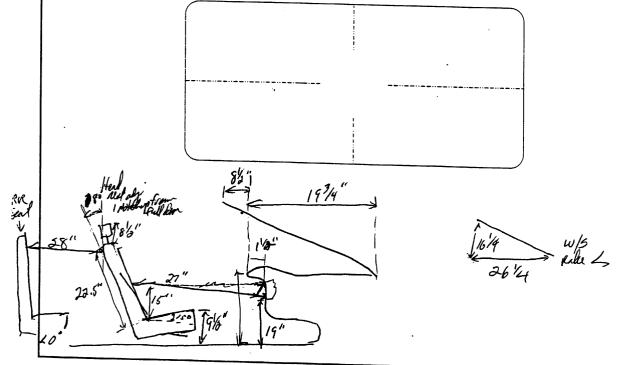
Parsonye Side Au Bay To an (10/4")

# PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (FRONT)



2. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back)



Sel Abjola 2" Commod fallow 4" Madvand of Fallow Full found

"OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES					
1 0/57000					
1. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front)					
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)					

"OTHER" AIR BAG SKETCHES (Cont'd)							
3. SKETCH AIR BAG MODULE FLAP AND SIZE OR OPENING FOR AIRBAG							
THE STATE OF THE S							
		•					
	•						
·							
			•				
4. SKETCH AIR BAG VENT PORTS							
•	,	·					
			·				
		•					

# **HEAD RESTRAINTS/SEAT EVALUATION**

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
	A-Head Restraint Type/Damage	NO WINDLE	abor 1	Y NO
F	B-Seat Type	Bucket/Recliny		14 A HRedin
i	C-Seat Orientation	Forward		Este 0
R	D-Seat Track Position	Ont- Bull fly most		2" from full Ren
Т	E-Seat Back Incline Pre/Post Impact	26° ran word / ? if M	and /	18° fran Heaten
-	F-Seat Performance	po problem	/	Po Hobben
	A-Head Restraint Type/Damage	Non -		
c	B-Seat Type	Bench w/ 40/60 in	Extension Salit Seat board	Sumt
S	C-Seat Orientation	Forward	7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	- off 4
CO	D-Seat Track Position	N		
N D	E-Seat Back Incline Pre/Post Impact	WA		
	F-Seat Performance	NT		
	A-Head Restraint Type/Damage		·	
т	B-Seat Type	/		,
Ĥ	C-Seat Orientation			<u> </u>
Ř	D-Seat Track Position			
D	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance			
	A-Head Restraint Type/Damage			
0	B-Seat Type			
T H	C-Seat Orientation			
E R	D-Seat Track Position			/
••	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance			

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

	CHILD SAFETY SEAT FIELD ASSESSMENT							
Wi the	When a child safety seat is present enter the occupant's number in the first row and complete the column below the occupant's number using the codes listed below. Complete a column for each child safety seat present.							
Oc	cupant Number	07						
1.	Type of Child Safety Seat	1						
2.	Child Safety Seat Orientation	02						
3.	Child Safety Seat Harness Usage	12			<del> </del>			
4.	Child Safety Seat Shield Usage	03						
5.	Child Safety Seat Tether Usage	03						
6.	Child Safety Seat Make/Model	Infant Pu	Spe	cify B	elow for E	ach Child Sat	ety Seat	
1.	Type of Child Safety Sea	Inlant Res	truit					
2.	(0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety (8) Unknown child safety (9) Unknown if child safety (OO) No child safety seat Designed for Rear Facing This Age/Weight	seat type ety seat used tion	y): —	4.	Child Sat Note: Op (00) No Not Desi (01) Aft add (02) Aft (03) Chi	child safety s gned with Ha er market har ed, not used er market har ld safety seat ness/shield/te	eld Usage her Usage Are Used for \ seat rness/Shield/Tr rness/shield/te rness/shield/te t used, but no	ether ther ther used after market
	(01) Rear facing (02) Forward facing (08) Other orientation (sp	pecify):			add	ed or used	ess/shield/tetl ss/Shield/Tethe	
	(09) Unknown orientation  Designed for Forward Fac	n ·			(11) Har (12) Har	ness/shield/te ness/shield/te	ether not used	
	Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (sp				(21) Har (22) Har	ness/shield/te ness/shield/te	ether not used	
	(19) Unknown orientation	n			(99) Unk	nown if child	l safety seat u	sed
	Unknown Design or Orien Age/Weight, or Unknown (21) Rear facing (22) Forward facing (28) Other orientation (sp	Age/Weight	3	6.	Child Saf (Specify	ety Seat Mak make/model a	ce/Model and occupant	number)
	(29) Unknown orientation	•						
	(99) Unknown if child sa	fety seat used					<del>7</del>	

# HEAD RESTRAINTS/SEAT EVALUATION

#### A-Head Restraint Type/Damage by E-Seat Back Incline Prior and Post Occupant at This Occupant Position Impact (0) No head restraints (00) Occupant not seated or no seat (1) Integral — no damage(2) Integral — damaged during (01) Not adjustable Upright prior to impact accident (11) Moved to completely rearward (3) Adjustable — no damage position 15 <sup>14</sup> 13 (4) Adjustable — damaged during (12)Moved to rearward midrange accident 16 12 position (5) Add-on - no damage (13)Moved to slightly rearward (6) Add-on — damaged during 17 position accident Retained pre-impact position (8) Other (15)Moved to slightly forward Specify): position (9) Unknown (16)Moved to forward midrange position (17) Moved to completely forward position **B-Seat Type (this Occupant** Position) Slightly reclined prior to impact (00) Occupant not seated or no 24 (21) Moved to completely rearward 25 seat (01) Bucket position 26 22 (22)Moved to rearward midrange (02) Bucket with folding back position (03) Bench 21 Retained pre-impact postion (23)(04) Bench with separate back (24)Moved to upright position cushions Moved to slightly forward (25)(05) Bench with folding back(s) (06) Split bench with separate back position (26)Moved to forward midrange cushions (07) Split bench with folding position (27) Moved to completely forward back(s) position (08) Pedestal (i.e., column supported) Completely reclined prior to impact (09) Box mounted seat (i.e., van (31) Retained pre-impact position type) (32) Moved to rearward midrange 34 (10) Other seat type (specify): 35 33 position 36 32 (33)Moved to slightly rearward (99) Unknown position (34) Moved to upright position Moved to slightly forward (35) position C-Seat Orientation (this Occupant (36) Moved to forward midrange Position) position Occupant not seated or no (0)Moved to completely forward seat position Forward facing seat (2)Rear facing seat Coding diagrams for Seat Back Incline (99) Unknown (3)Side facing seat (inward) Position Prior and Post Impact Side facing seat (outward) (4)(8)Other (specify): F-Seat Performance (this Occupant (9)Unknown Position) (0) Occupant not seated or no seat No seat performance failure(s) (1)**D-Seat Track Adjusted Position Prior** (2) Seat adjusters failed (3) Seat back folding locks or "seat To Impact back" failed (specify): (0) Occupant not seated or no seat Seat tracks/anchors failed (1) Non-adjustable seat track (5)Deformed by impact of occupant Deformed by passenger (6)Adjustable Seat Track Seat at forward most track compartment intrusion (2) (specify): position Combination of above (specify): (3) (7)Seat between forward most and middle track positions

(8)

(9)

(4)

(5)

(6)

(9)

Seat at middle track position Seat between middle and rear

most track positions

position

Unknown

Seat at rear most track

Other (specify):

Unknown

vational Accident Sampling System-	Crashworthiness Data System: Inter	
Complete the following if the resea in the vehicle. Code the appropria		unant was side with a side of the side of
EJECTION No [ / Yes [ Describe indications of ejection and	] d body parts involved in partial eject	on(s):
Occupant Number		
Ejection		
(Note on Vehicle Interior Sketch) Ejection Area		
Ejection Medium		
Medium Status		
Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown  Ejection Area (1) Windshield (2) Left front (3) Right front (4) Left rear	(7) Roof (8) Other area (e.g., back of pickup, etc.) (specify):  (9) Unknown  Ejection Medium (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):	(5) Integral structure (8) Other medium (specify):  (9) Unknown  Medium Status (Immediately Prior to Impact) (1) Open (2) Closed (3) Integral structure
(5) Right rear (6) Rear		(9) Unknown
Describe entrapment mechanism: _		
Component(s):		

(Note on vehicle interior sketch)



HS Form 433A (1/96)

# **OCCUPANT ASSESSMENT FORM**

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM

	CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum 96-13	10. Occupant's Seat Position  Front Seat
3. Vehicle Number	(11) Left side (12) Middle
4. Occupant Number	(13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month):  (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant  Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify):
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown	(45) On or in the lap of another occupant  (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight / 3   / 3	11. Occupant's Posture (0) Normal posture  Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

EJECTION/ENTRAPMENT						
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	0	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown				
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	0	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify):  (9) Unknown  17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or not oriented to time or place				
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):  (5) Integral structure (8) Other medium (specify):  (9) Unknown	_0	(2) Removed from vehicle due to perceived serious injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (8) Removed from vehicle for other reasons (specify): (9) Unknown				

		BELT SYSTE	IVI	ONCTON	
18.	(0) (1) (2) (3) (4) (5)	ual (Active) Belt System Availability None available Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available—type unknown aral Belt Partially Destroyed	22.	Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt  Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position	2
	(6) · (7)	Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify):		<ul> <li>(4) In full down position</li> <li>(5) Position unknown</li> <li>(9) Unknown if position has adjustable upper anchorage adjustment</li> </ul>	
	(9)	Unknown	23	•	/)
19.	(00)	ual (Active) Belt System Use None used, not available, or belt removed/destroyed Inoperative (specify):	20.	Automatic (Passive) Belt System Availability/ Function (O) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts	
	(02) (03) (04)	Shoulder belt Lap belt Lap and shoulder belt Belt used—type unknown		<ul> <li>(3) Automatic belts - type unknown</li> <li>Non-functional</li> <li>(4) Automatic belts destroyed or rendered inoperative</li> <li>(9) Unknown</li> </ul>	
	(08) (12) (13)	Other belt used (specify):  Shoulder belt used with child safety seat Lap belt used with child safety seat Lap and shoulder belt used with child	24.	Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually	0
	(15) (18)	safety seat Belt used with child safety seat—type unknown Other belt used with child safety seat (specify):		disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown	
20.	Prope (0) I (1) I	Unknown if belt used er Use of Manual (Active) Belts None used or not available Belt used properly	25.	Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	_0
	Belt (3) \$ (4) \$ (5) \$ (6)	Belt used properly with child safety seat  Used Improperly  Shoulder belt worn under arm  Shoulder belt worn behind back or seat  Belt worn around more than one person  Lap belt worn on abdomen  Lap belt or lap and shoulder belt used	26.	Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat  Automatic Belt Used Improperly	0
	ı آ (8)	mproperly with child safety seat (specify):  Other improper use of manual belt system (specify):		<ul> <li>(3) Automatic shoulder belt worn under arm</li> <li>(4) Automatic shoulder belt worn behind back</li> <li>(5) Automatic belt worn around more than one person</li> <li>(6) Lap portion of automatic belt worn</li> </ul>	
	(9) T	Jnknown		on abdomen (7) Automatic lap and shoulder belt or	
	Durin (0) N (1) N (2) T	ual (Active) Belt Failure Modes g Accident No manual belt used or not available No manual belt failure(s) Forn webbing (stretched webbing not ncluded) Broken buckle or latchplate		automatic shoulder belt used improperly with child safety seat (specify):  (8) Other improper use of automatic belt system (specify):  (9) Unknown	
	(4) ( (5) ( (6) E (7) ( (8) (	Upper anchorage separated Other anchorage separated (specify): Broken retractor Combination of above (specify): Other manual belt failure (specify):	27.	Automatic (Passive) Belt Failure Modes During Accident (O) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	<u>0</u> )
	(9) L	Jnknown .		(6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): (9) Unknown	

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use  (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown"  29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	<ul> <li>31. Frontal Air Bag System Deployment (This Occupant Position)</li> <li>(0) Not equipped/not available</li> <li>(1) Deployed during accident (as a result of impact)</li> <li>(2) Deployed inadvertently just prior to accident</li> <li>(3) Deployed, details unknown</li> <li>(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(5) Unknown if deployed</li> <li>(7) Nondeployed</li> <li>(9) Unknown</li> </ul>
Check the Primary Source Used In Determining Belt Use.  [V] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify):  [] Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown  Specify type of "other" air bag present:
	<ul> <li>33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position)</li> <li>(0) Not equipped with an "other" air bag</li> <li>(1) Deployed during accident (as a result of impact)</li> <li>(2) Deployed inadvertently just prior to accident</li> <li>(3) Deployed, details unknown</li> <li>(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(5) Unknown if deployed</li> <li>(7) Nondeployed</li> <li>(9) Unknown</li> </ul>
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

	FIRST SEAT FRONTAL AIR	BAG S	STEM EVALUATION	
(0) Not (1) No p  Yes (2) Previ (3) One (4) More one (			ngitudinal Component of + Ita V For Air Bag ployment Impact 2000) Not equipped/not available Code the value of the delta impact that initiated the air deployment 296) Deployment, unknown long Delta V 297) Not deployed 298) Unknown if deployed 299) Unknown	a V for the r bag
(1) Origin (2) Retro (3) Repla	equipped/not available nal manufacturer installed system ofitted air bag acement air bag nown type of air bag	(1) (2) (3) (7) (8)	d Air Bag Module Cover Flap(s) O signated Tear Points? Not equipped/not available No Yes Deployed, unknown if flap(s) op designated tear points Not deployed Unknown if deployed	
Been Per (O) Not e (1) No pr (2) Yes, (9) Unkn  38. Air Bag E Sequence	Prior Maintenance/Service formed On This Air Bag System? equipped/not available rior maintenance prior maintenance (specify): fown  Deployment Accident Event e Number t equipped/not available	42. W (0 (1 (2 (3 (7 (8	ere Air Bag Module Cover Flap(s) Not equipped/not available No Yes (specify): Deployed, unknown if air bag m flap(s) damaged Not deployed Unknown if deployed Unknown	
(96) Der (97) Not	Code the accident event sequence number that initiated the air bag deployment ployed, unknown event deployed crown if deployed	(0: (0: <i>Ye</i> (0: (0:	s There Damage To The Air Bag? Not equipped/not available Not damaged  - Air Bag Damage Ruptured Cut	? _d_
(0) Not e (1) Highe (2) Secon (3) Other  (6) Deplo (7) Not d	own if deployed	(0) (0) (8) (9) (9) (9) (9)	Torn Holed Burned Other damage (specify):  Damaged, details unknown Deployed, unknown if damage Not deployed Unknown Unknown	d

FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify):  (03) Object carried by occupant, (specify):  (04) Adaptive/assistive controls, (specify):  (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify):  (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	49. Head Restraint Type/Damage by Occupant at This Occupant Position  (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):  (9) Unknown  50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s)
45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps):  (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown	(06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown  51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat
46. Did The Air Bag Have Vent Ports?  (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports):  (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown	(1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown  52. Seat Track Adjusted Position Prior To Impact
47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify):  (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown	(0) Occupant not seated or no seat (1) Non-adjustable seat track  Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown
48. Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	

# HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
  - (00) Occupant not seated or no seat
  - (01) Not adjustable

## Upright prior to impact

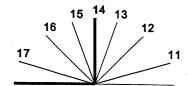
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

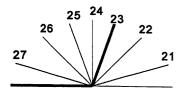
## Slightly reclined prior to impact

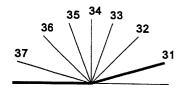
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

## Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
  - (0) Occupant not seated or no seat
  - (1) No seat performance failure(s)
  - (2) Seat adjusters failed
  - (3) Seat back folding locks or "seat back" failed (specify):
  - (4) Seat track/anchors failed
  - (5) Deformed by impact of occupant
  - (6) Deformed by passenger compartment intrusion, (specify):
  - (7) Combination of above (specify):
  - (8) Other (specify):
  - (9) Unknown







	CHILD SAF	ETY SEAT
55.	1000) No cima safety seat	58. Child Sa
	Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):	59. Child Sa
	(998) Unknown make/model	60. Child Sa
	(999) Unknown if child safety seat used	Note: O Variable (00) No
56.	Type of Child Safety Seat (0) No child safety seat	(00) 140
	(1) Infant seat	Not Des (01) Af
	(2) Toddler seat (3) Convertible seat	ad
	(4) Booster seat - with shield	(02) Af (03) Ch
	(5) Booster seat - without shield	ha
	(7) Other type child safety seat (specify):	(09) Un
	(8) Unknown child safety seat type	ad
	(9) Unknown if child safety seat used	Designe
		(11) Ha (12) Ha
57.	Child Safety Seat Orientation	(19) Un
	(00) No child safety seat	Unterna
	Designed for Rear Facing for This Age/Weight	<i>Unknow</i> (21) Ha
	(01) Rear facing (02) Forward facing	(22) Ha
	(08) Other orientation (specify):	(29) Un
	(09) Unknown orientation	(99) Un
	· · · · · · · · · · · · · · · · · · ·	
	Designed For Forward Facing for This Age/Weight	
	(11) Rear facing (12) Forward facing	
	(18) Other orientation (specify):	
	(19) Unknown orientation	
	Unknown Design or Orientation For This	
	Age/Weight, or Unknown Age/Weight	
	(21) Rear facing (22) Forward facing	
	(28) Other orientation (specify):	
	(29) Unknown orientation	
	(99) Unknown if child safety seat used	

58. Child Safety Seat Harness Usage
59. Child Safety Seat Shield Usage
60. Child Safety Seat Tether Usage

Note: Options below applicable to Variables OA58-OA60.

(00) No child safety seat

## Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

## Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

# Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

INJURY CONSEQUENCES	
61. Injury Severity (Police Rating)  (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (O) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):
(0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):  Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify):  (8) Transported to a medical facility-unknown if treated (9) Unknown	64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown  65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
STOP WO	ORK HERE

**VARIABLES 66-74** 

TO BE CODED BY THE ZONE CENTER

# TO BE CODED BY THE ZONE CENTER

	INJURY CONSEQUENCES	TRAUMA DATA
	Time to Death  Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60)  (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
	1st Medically Reported Cause of Death	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given
	2nd Medically Reported Cause of Death  3rd Medically Reported Cause of Death	(specify units): (9) Unknown if blood given
	Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (OO) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):  (97) Other result (includes fatal ruled	73. Arterial Blood Gases (ABG) – HCO <sub>3</sub> (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured
	disease) (specify):	BELT USE DETERMINATION
<b>70.</b> [	Number of Recorded Injuries for This Occupant  Code the actual number of injuries recorded for this occupant.  (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used

U.S. Department of Transportation National Highway Traffic Safety Administration

## **OCCUPANT INJURY FORM**

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

2. Case Number - Stratum

3. Vehicle Number

4. Occupant Number

## **INJURY DATA**

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	S			A.I.S 9	90		_		Injury		Occupant
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number
1st	5. <u>7</u> 6	s7	7.5	8 4	9. <u>20</u>	10. <u>/</u>	11.2 12.	001	13	14 1	5. <u>00</u>
2nd	16. 17	,.7	18. Ĵ	19. <u>86</u>	20.00	21	22 2 23.	001	24	25 2	.6. <u>07)</u>
							33. 2 34.				
							44.2 45.				
							55. <u>4</u> 56.				
	99 <b>999</b> AMEDIC 1994 A						66. 4 67.				
1.834.47 856							77. <u>/</u> 78.				
8th	82. 7 83	.4	84. <u>9</u>	85.04	86. <u>02</u>	87	88. 4 89.	152	90.	91. 1 9	2
9th	93 94		95	96	97	98	99 100		101,1	0210	3
10th 1	104 105	1	06 1	07	108	109	110 111		1121	13 11	4

Page 2

# OCCUPANT INJURY CLASSIFICATION

#### **Body Region** Head (2)Face (3) Neck (4)Thorax (5) Abdomen (6)Spine **Upper Extremity** (7)(8) Lower Extremity (9) Unspecified Type of Anatomic Structure (1) Whole Area (2) Vessels (3)Nerves

Organs (includes

Muscles/ligaments)

Skeletal (includes

joints)

Skin

Head - LOC

(4)

(5)

(6)

(9)

## Bones, Joints are assigned consecutive two digit numbers beginning with 02.

Vessels, Nerves, Organs.

**Specific Anatomic** 

Structure

The exceptions to this rule

appry	to:
Whol (02) (04) (06) (08) (10) (20) (30) (40) (50) (90)	e Area Skin - Abrasion Skin - Contusion Skin - Laceration Skin - Avulsion Amputation Burn Crush Degloving Injury - NFS Trauma, other tha

<u>Head</u>	- LOC		
	Length	of	LOC

(04) Level (06) of

(08) Consciousness

(10) Concussion

# <u>Spine</u>

(02) Cervical (04) Thoracic

(06) Lumbar

## Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

## **Abbreviated Injury Scale**

Minor Injury

(2)Moderate Injury

(3) Serious Injury (4)

Severe Injury (5)

Critical Injury (6)Maximum

(untreatable) Injured, unknown

(7) severity

## Aspect

- (1) Right (2)Left
- (3) Bilateral
- (4) Central (5) Anterior
- (6) Posterior ... (7)
- Superior : (8) Inferior (9)
- Unknown Whole region

# SOURCE OF INJURY DATA

## **OFFICIAL RECORDS** (1) Autopsy records with or

- without hospital/medical
- (2) Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

## **UNOFFICIAL RECORDS**

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify):
- (9) Police

# DIRECT/INDIRECT INJURY

# CONFIDENCE LEVEL

- (1) Certain
- (2) Probable

**INJURY SOURCE** 

than

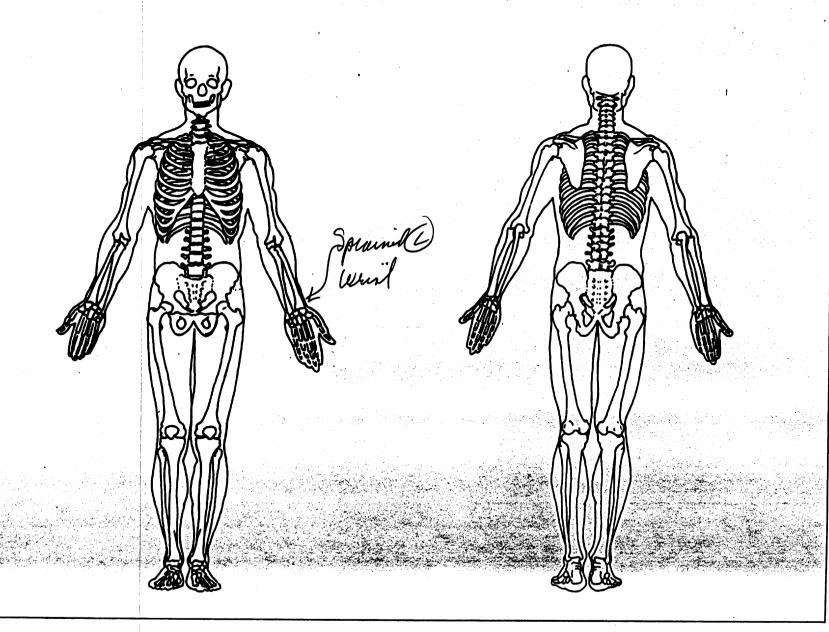
- (3) Possible
- (9) Unknown

- Direct contact injury
- (2) Indirect contact injury
- (3) Noncontact injury
- (7) Injured, unknown source

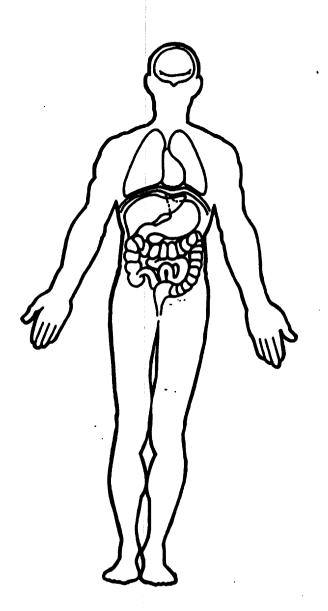
			INJURY	SUUF	IUES		
FRONT		(102)	Right side hardware or	(183)	Air bag-passenger side and	1400	144-11
(001)	Windshield	100	armrest	(1.00,	object held	(411)	Wall mounted head rest
(002)	Mirror	(103)	Right A (A1/A2)-pillar	(184)	Air bag-passenger side and	(410)	(used behind wheel chair)
(003)	Sunvisor	(104)		11017	object in mouth	(412)	Other adaptive device
(004)	Steering wheel rim	(105)		(185)	Air bag compartment	4 1 1 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	(specify):
(005)	Steering wheel hub/spoke			(100,			
(006)	Steering wheel (combination	(106)	Right side window glass	(186)	cover-passenger side Air bag compartment		
	of codes 004 and 005)	(107)	Right side window frame	(100)			RIOR of OCCUPANT'S
(007)	Steering column,	(108)			cover-passenger side and	VEHIC	
	transmission selector lever,	(109)		(107)	eyewear		Hood
	other attachment		including one or more of the	(10//	Air bag compartment	(452)	Outside hardware (e.g.,
(800)	Cellular telephone or CB		following: frame, window		cover-passenger side and		outside mirror, antenna)
	radio		sill, A (A1/A2)-pillar, B-pillar,	(1.00)	jewelry	(453)	Other exterior surface or
(009)	Add on equipment (e.g.,		or roof side rail.	(188)	Air bag compartment		tires (specify):
	tape deck, air conditioner)	(110)			cover-passenger side and		
(010)	Left instrument panel and	(110)	Other right side object		object held		
	below		(specify):	(189)	Air bag compartment	(454)	Unknown exterior objects
(011)	Center instrument panel and				cover-passenger side and		
	below	****			object in mouth	EXTE	RIOR OF OTHER MOTOR
		INTER		(190)	Other air bag (specify)	VEHIC	
	Right instrument panel and		Seat, back support				Front bumper
	below	(152)	Belt restraint webbing/buckle	(195)	Other air bag compartment		Hood edge
	Glove compartment door	(153)	Belt restraint B-pillar or door		cover (specify)		Other front of vehicle
	Knee bolster		frame attachment point				(specify):
	Windshield including one or	(154)	Other restraint system				topecity).
	more of the following: front		component (specify):	ROOF	and the second of the second	(504)	Hood
	header, A (A1/A2)-pillar,				Front header		Hood ornament
•	instrument panel, mirror, or	(155)	Head restraint system		Rear header		
	steering assembly (driver		Other occupants (specify):	(203)	Roof left side rail	(506)	
	side only)				Roof right side rail		Side surface
(016)	Windshield including one or	(161)	Interior loose objects		Roof or convertible top	(508)	Side mirrors
	more of the following: front		Child safety seat (specify):	(200)	nool or convertible top	(509)	Other side protrusions
	header, A (A1/A2)-pillar,	/	and the control of th	EI 00:	•		(specify):
	instrument panel, or mirror	(163)	Other interior object	FLOOR			
	(passenger side only)	(103)			Floor (including toe pan)	(510)	Rear surface
	Windshield reinforced by		(specify):	(252)	Floor or console mounted	(511)	Undercarriage
					transmission lever, including		Tires and wheels
	exterior object (specify)				console		Other exterior of other mot
(O10)	Other from this to the	AIR BA			Parking brake handle	,	vehicle (specify):
.5131	Other front object (specify):		Air bag-driver side	(254)	Foot controls including		
•		(171)	Air bag-driver side and		parking brake	(514)	Unknown exterior of other
EFT O	IDE .		eyewear				motor vehicle
LEFT SI		(172)	Air bag-driver side and	REAR			
	Left side interior surface,		jewelry	(301)	Backlight (rear window)	OTHE	R VEHICLE OR OBJECT IN
•	excluding hardware or	(173)	Air bag-driver side and object	(302)	Backlight storage rack,		
	armrests		held		door, etc.		NVIRONMENT
(052)	Left side hardware or	(174)	Air bag-driver side and object	(303)	Other rear object (specify):		Ground
	armrest		in mouth	/	roun object (specify):	(598)	Other vehicle or object
(053)	Left A (A1/A2)-pillar	(175)	Air bag compartment				(specify):
	Left B-pillar		cover-driver side	ADAR	TIVE (ARRIETIVE) DOMING		
(055)	Other left pillar (specify):	(176)	Air bag compartment		TIVE (ASSISTIVE) DRIVING	(599)	Unknown vehicle or object
			cover-driver side and	EQUIP			
056)	Left side window glass			(401)	Hand controls for	NONC	ONTACT INJURY
	Left side window frame	(177)	Air bas compositions	4455	braking/acceleration		Fire in vehicle
	Left side window sill	(1///	Air bag compartment	(402)	Steering control devices		Flying glass
	Left side window glass	(170)	cover-driver side and jewelry		(attached to OEM steering		Other noncontact injury
	ncluding one or more of the	(178)	Air bag compartment		wheel)		source
	following: frame, window		cover-driver side and object	(403)	Steering knob attached to		(specify):
	sill, A (A1/A2)-pillar, B-pillar,	,,=	held		steering wheel	(604)	Air bag exhaust gases
	or roof side rail.	(179)	Air bag compartment	(405)	Replacement steering wheel	(697)	Injured, unknown source
			cover-driver side and object		(i.e., reduced diameter)	,	
	Other left side object		in mouth	(406)	Joy stick steering controls	*	
(	specify):		Air bag-passenger side	(407)	Wheelchair tie-downs		
-			Air bag-passenger side and		Modification to seat belts,		
			eyewear		(specify):		
RIGHT		(182)	Air bag-passenger side and	(409)	Additional or relocated		
	Right side interior surface,		jewelry		switches, (specify):		
•	excluding hardware or		-		omiciles, (specify):		
	rmrests						
а				1440	Raised roof		

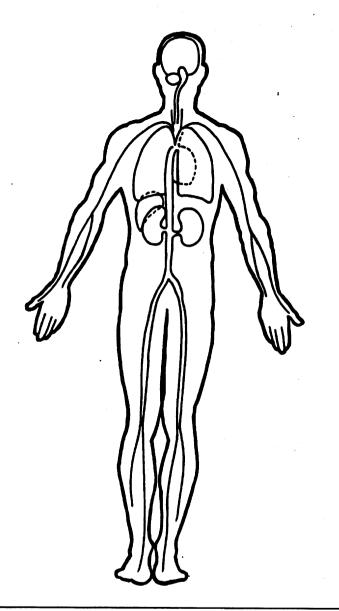
	OFFICIAL INJURY DATA — SOFT TISSUE INJURIES
Restrained?  No Yes  Blood Alcohol Level (mg/dl)  BAL =  Glasgow Coma Scale Score  GCSS =  Units of Blood Given  Units =  Arterial Blood Gases	Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)  Confusion arrows
Arterial Blood Gases  pH =  PO <sub>2</sub> =  PCO <sub>2</sub>	Bunis or wisele Surpay Shoth Greathy
HCO <sub>3</sub>	Country

## OFFICIAL INJURY DATA — SKELETAL INJURIES



## OFFICIAL INJURY DATA - INTERNAL INJURIES





## U.S. Department of Transportation National Highway Traffic Safety Administration

# **OCCUPANT ASSESSMENT FORM**

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum 96-13	10. Occupant's Seat Position  Front Seat
3. Vehicle Number 0 /	(11) Left side
4. Occupant Number	(12) Middle (13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):
	(15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident.	Second Seat (21) Left side
(00) Less than one year old (specify by month):	(22) Middle
(97) 97 years and older	(23) Right side (24) Other (specify):
(99) Unknown	(25) On or in the lap of another occupant
	Third Seat
6. Occupant's Sex	(31) Left side
(1) Male	(32) Middle
(2) Female-not reported pregnant	(33) Right side (34) Other (specify):
(3) Female-pregnant-1st trimester(1st-3rd month)	(35) On or in the lap of another occupant
<ul><li>(4) Female-pregnant-2nd trimester(4th-6th month)</li><li>(5) Female-pregnant-3rd trimester(7th-9th month)</li></ul>	Fourth Seat
(6) Female-pregnant-term unknown	(41) Left side
(9) Unknown	(42) Middle
	(43) Right side (44) Other (specify):
	(45) On or in the lap of another occupant
7. Occupant's Height Code actual height to the nearest	
centimeter.	(97) In or on unenclosed area (98) Other seat (specify):
(999) Unknown	(99) Unknown
inches X 2.54 = centimeters	
8. Occupant's Weight	11. Occupant's Posture
Code actual weight to the nearest kilogram.	(0) Normal posture
(999) Unknown	Abnormal posture
pounds X .4536 = kilograms	(1) Kneeling or standing on seat (2) Lying on or across seat
	<ul><li>(3) Kneeling, standing or sitting in front of seat</li><li>(4) Sitting sideways or turned to talk with</li></ul>
9. Occupant's Role (1) Driver	another occupant or to look out a rear
(2) Passenger	window (5) Sitting on a console
(9) Unknown	(6) Lying back in a reclined seat position
·	(7) Bracing with feet or hands on a surface in front of seat
	(8) Other abnormal posture (specify):
	(9) Unknown
HS Form 433A (1/96) This report is authorized by P. L. 99 563 TH	

EJECTION/ENTRAPMENT						
12.	Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	_0	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown	0		
14.	Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, (specify): (9) Unknown  Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown		<ul> <li>16. Entrapment <ul> <li>(O) Not entrapped/exit not inhibited</li> <li>(1) Entrapped/pinned - mechanically restraine</li> <li>(2) Could not exit vehicle due to jammed door fire, etc. <ul> <li>(specify):</li> </ul> </li> <li>(9) Unknown</li> </ul> </li> <li>17. Occupant Mobility <ul> <li>(O) Occupant fatal before removed from vehicle</li> <li>(1) Removed from vehicle while unconscious not oriented to time or place</li> <li>(2) Removed from vehicle due to perceived serious injuries</li> <li>(3) Exited vehicle with some assistance</li> <li>(4) Exited vehicle under own power</li> <li>(5) Occupant fully ejected</li> <li>(8) Removed from vehicle for other reasons (specify):</li> <li>(9) Unknown</li> </ul> </li> </ul>	rs, 		

BELT SYSTEM FUNCTION						
18. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown  Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)	22. Manual Shoulder Belt Upper Anchorage Adjustment (0) No manual shoulder belt (1) No upper anchorage adjustment for manual shoulder belt  Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown					
(8) Other belt (specify):  (9) Unknown  19. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	(9) Unknown if position has adjustable upper anchorage adjustment  23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts					
(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):  (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat	(3) Automatic belts - type unknown  Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown  24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use					
(14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used  20. Proper Use of Manual (Active) Belts	(2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown  25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system					
(0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat  Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen	(2) Motorized system (9) Unknown  26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat					
<ul> <li>(7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):</li> <li>(8) Other improper use of manual belt system (specify):</li> <li>(9) Unknown</li> </ul>	Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or					
21. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated	automatic shoulder belt used improperly with child safety seat (specify):  (8) Other improper use of automatic belt system (specify):  (9) Unknown  27. Automatic (Passive) Belt Failure Modes					
<ul> <li>(5) Other anchorage separated (specify):</li> <li>(6) Broken retractor</li> <li>(7) Combination of above (specify):</li> <li>(8) Other manual belt failure (specify):</li> <li>(9) Unknown</li> </ul>	(O) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):					
	(6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): (9) Unknown					

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown"  29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use.  [	<ul> <li>Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (O) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown  Specify type of "other" air bag present:</li> </ul>
	<ul> <li>33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position)</li> <li>(0) Not equipped with an "other" air bag</li> <li>(1) Deployed during accident (as a result of impact)</li> <li>(2) Deployed inadvertently just prior to accident</li> <li>(3) Deployed, details unknown</li> <li>(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(5) Unknown if deployed</li> <li>(7) Nondeployed</li> <li>(9) Unknown</li> </ul>
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify):

	FINST SEAT FRUNTAL AIR	BAG SYSTEM EVALUATION
35.	Had Vehicle Been in Previous Accident(s)?  (0) Not equipped/not available (1) No previous accidents  Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36.	Type of Air Bag  (0) Not equipped/not available  (1) Original manufacturer installed system  (2) Retrofitted air bag  (3) Replacement air bag  (8) Unknown type of air bag  (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed
	Had Any Prior Maintenance/Service Been Performed On This Air Bag System?  (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify):  (9) Unknown	(9) Unknown  42. Were Air Bag Module Cover Flap(s) Damaged? [ (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed
	Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(8) Unknown if deployed (9) Unknown  43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged  Yes - Air Bag Damage (02) Ruptured (03) Cut
	CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify):  (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(04) Torn (05) Holed (06) Burned (07) Abraded (88) Other damage (specify):  (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify):  (03) Object carried by occupant, (specify):  (04) Adaptive/assistive controls, (specify):  (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify):  (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):  (9) Unknown  50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s)
45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps):  (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown	(06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify):  (99) Unknown  51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat
46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports):  (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown	(1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown  52. Seat Track Adjusted Position Prior To Impact
47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify):  (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown	(0) Occupant not seated or no seat (1) Non-adjustable seat track  Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown
48. Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	

# HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
  - (00) Occupant not seated or no seat
  - (01) Not adjustable

### Upright prior to impact

- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

### Slightly reclined prior to impact

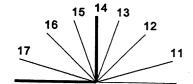
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

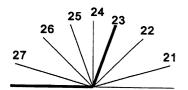
## Completely reclined prior to impact

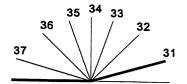
- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown

## 54. Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed (specify):
- (4) Seat track/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion, (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown







	CHIL	D SAF	ETY	SEAT	
	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CD: Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):	2	58. ( 59. (	Child Safety Seat Harness Usage  Child Safety Seat Shield Usage	2 3
	(998) Unknown make/model (999) Unknown if child safety seat used		. \	Child Safety Seat Tether Usage  Note: Options below applicable to Variables OA58-OA60.  (00) No child safety seat	3
57. (	Type of Child Safety Seat  (0) No child safety seat  (1) Infant seat  (2) Toddler seat  (3) Convertible seat  (4) Booster seat - with shield  (5) Booster seat - without shield  (7) Other type child safety seat (specify):  (8) Unknown child safety seat type  (9) Unknown if child safety seat used  Child Safety Seat Orientation  (00) No child safety seat  Designed for Rear Facing for This Age/Weight	1	() () () () () () ()	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after mark harness/shield/tether added (09) Unknown if harness/shield/tether added or used (11) Designed With Harness/Shield/Tether (11) Harness/shield/tether used (12) Harness/shield/tether used (13) Unknown if harness/shield/tether used	
	<ul> <li>(01) Rear facing</li> <li>(02) Forward facing</li> <li>(08) Other orientation (specify):</li> <li>(09) Unknown orientation</li> <li>(Designed For Forward Facing for This Age/Westigned)</li> <li>(11) Rear facing</li> </ul>		(:	<ul> <li>21) Harness/shield/tether not used</li> <li>22) Harness/shield/tether used</li> <li>29) Unknown if harness/shield/tether used</li> <li>99) Unknown if child safety seat used</li> </ul>	
(	<ul> <li>12) Forward facing</li> <li>18) Other orientation (specify):</li> <li>19) Unknown orientation</li> </ul>				
(	Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight 21) Rear facing 22) Forward facing 28) Other orientation (specify):  Unknown orientation				
(	99) Unknown if child safety seat used				i

INJURY CONSEQUENCES	
61. Injury Severity (Police Rating)  (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) 2 (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):
62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):  Nonfatal (3) Hospitalization	64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown
<ul> <li>(4) Transported and released</li> <li>(5) Treatment at scene - nontransported</li> <li>(6) Treatment later</li> <li>(7) Treatment - other (specify):</li> <li>(8) Transported to a medical facility-unknown if treated</li> <li>(9) Unknown</li> </ul>	65. Working Days Lost  Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
STOP WO	ORK HERE

**VARIABLES 66-74** 

TO BE CODED BY THE ZONE CENTER

# TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES	TRAUMA DATA
Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60)  (00) Not fatal  (96) Fatal - ruled disease  (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given
69. 3rd Medically Reported Cause of Death  Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to	(specify units):
this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	(00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):	RELT LISE DETERMINISTION
(99) Unknown	BELT USE DETERMINATION
70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used

U.S. Department of Transportation National Highway Traffic Safety Administration

## **OCCUPANT INJURY FORM**

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

\_\_\_\_

3. Vehicle Number

0 |

2. Case Number - Stratum

96-13

4. Occupant Number

22

## **INJURY DATA**

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

	Source of Injury Data	•	Type of Anatomic Structure	A.I.S 9 Specific Anatomic Structure	Level of Injury	A.I.S. Severity	— Aspect	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number
1st				8. <u>D</u> 4							
2nd	16. 2	7	18. 🔟	19. 06	20.04	21.3	22,2—23	s. <u>180</u> ((45)	24	25. 1	26. <u>8</u>
3rd	272 2	<sup>18.</sup> —	29. 4	30. <u>/</u> /	31. <u>5</u> 2	- 32. <u> </u>	33. <u>J</u> 34	(180	35	36	37. <u>O</u>
4th	38. 2	19. <u>/</u>	40. <u>¶</u>	41. <u>04</u>	42. <u>07</u>	~43. ∠	44 45	1.490 (1857)	46	47 4	18. <i>Od</i>
5th	49. 2 5	o. <u>/</u>	51.6	52. <u>O</u> Y	53. <u>Of</u>	54. 2	_ 55() 56	180 (1867)	57. 丄	58. ⊥ ફ	19. <u>0</u>
	SALAM MATERIAL AND ARRESTS AND			63		and the second of the second of the second of					
7th	71 7	2	73	74	75	76	77 78	ı. — — —	79	80 8	31
8th	82 8	3	84	85	86	87	8889	ı	90	91 8	92
9th	93 9	4	95	96	97	98	99 100		101	102 10	03
10th	104 10	5. <u> </u>	106, 1	07	108	109	110 111	·	112	113 11	4

## OCCUPANT INJURY CLASSIFICATION

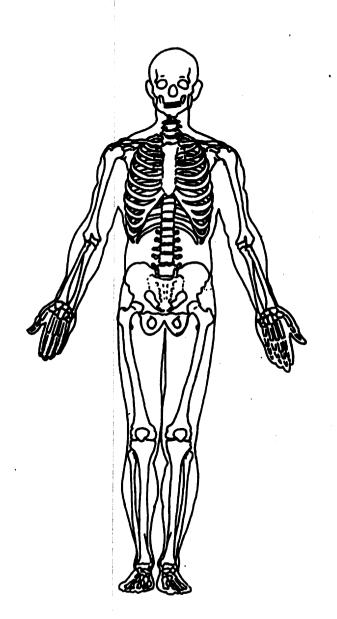
#### **Body Region** Specific Anatomic Level of Injury Aspect Structure (1)Head Specific injuries are Right (2) **Face** assigned consecutive (2) Left (3) Neck Vessels, Nerves, Organs. two-digit numbers (3) Bilateral (4)Thorax Bones, Joints are assigned beginning with 02. (4)Central (5) consecutive two digit Abdomen (5) Anterior (6)Spine numbers beginning with To the extent possible, (6) Posterior **Upper Extremity** (7)02. within the organizational **(7)** Superior (8) Lower Extremity framework of the AIS, 00 (8) Inferior (9)Unspecified The exceptions to this rule is assigned to an injury (9) Unknown apply to: NFS as to severity or (0)Whole region where only one injury is Type of Anatomic Whole Area given in the dictionary for **Structure** (02) Skin - Abrasion that anatomic structure. Skin - Contusion (04) 99 is assigned to any (1)Whole Area Skin - Laceration (06)injury NFS as to lesion or (2)Vessels (80) Skin - Avulsion severity. (3) Nerves (10)**Amputation** (4)Organs (includes (20)Burn Abbreviated Injury Scale Muscles/ligaments) (30)Crush (5) Skeletal (includes (40)Degloving (1) Minor Injury joints) (50)Injury - NFS (2)Moderate Injury (6)Head - LOC (90)Trauma, other than (3) Serious Injury (9) Skin mechanical (4)Severe Injury (5) Critical Injury Head - LOC (6)Maximum (02) Length of LOC (untreatable) (7)Injured, unknown (04) Level severity (06) of (08) Consciousness (10) Concussion <u>Spine</u> (02)Cervical Thoracic (04)(06) Lumbar

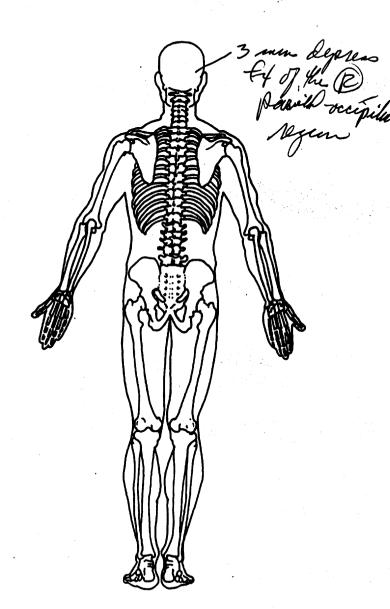
SOURCE OF INJURY DATA		INJURY SOURCE CONFIDENCE LEVEL	DIRECT/INDIRECT INJURY		
	OFFICIAL RECORDS  (1) Autopsy records with or without hospital/medical records  (2) Hospital/medical records other than emergency room (e.g., discharge summary)  (3) Emergency room records only (including associated X-rays or other lab reports)  (4) Private physician, walk-in or emergency clinic	(1) Certain (2) Probable (3) Possible (9) Unknown	(1) Direct contact injury (2) Indirect contact injury (3) Noncontact injury (7) Injured, unknown source		
	UNOFFICIAL RECORDS (5) Lay coroner report (6) E.M.S. personnel (7) Interviewee (8) Other source (specify):				

Vindshield firror funvisor teering wheel rim teering wheel hub/spoke teering wheel (combination f codes 004 and 005) teering column, ransmission selector lever, ther attachment tellular telephone or CB adio dd on equipment (e.g., ape deck, air conditioner) eft instrument panel and elow enter instrument panel and elow ight instrument panel and elow love compartment door nee bolster /indshield including one or ore of the following: front teader, A (A1/A2)-pillar, strument panel, mirror, or	(103) (104) (105) (106) (107) (108) (109) (110) (110) (151) (152) (153) (154)	Other right pillar (specify):  Right side window glass Right side window frame Right side window sill Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail. Other right side object (specify):	(184) (185) (186) (187) (188) (189) (190)	Air bag-passenger side and object held Air bag-passenger side and object in mouth Air bag compartment cover-passenger side and cover-passenger side and eyewear Air bag compartment cover-passenger side and jewelry Air bag compartment cover-passenger side and object held Air bag compartment cover-passenger side and object held Air bag compartment cover-passenger side and object in mouth Other air bag (specify)  Other air bag compartment cover (specify)	(412)  EXTERVEHIC (451) (452) (453)  (454)  EXTERVEHIC (501)	Hood Outside hardware (e.g., outside mirror, antenna) Other exterior surface or tires (specify):  Unknown exterior objects RIOR OF OTHER MOTOR CLE Front bumper Hood edge
Airror  unvisor  teering wheel rim  teering wheel hub/spoke teering wheel (combination f codes 004 and 005) teering column, ansmission selector lever, ther attachment ellular telephone or CB adio dd on equipment (e.g., ape deck, air conditioner) aft instrument panel and elow enter instrument panel and elow gipt instrument panel and elow love compartment door nee bolster (indshield including one or ore of the following: front eader, A (A1/A2)-pillar,	(103) (104) (105) (106) (107) (108) (109) (110) (110) (151) (152) (153) (154)	armrest Right A (A1/A2)-pillar Right B-pillar Other right pillar (specify): Right side window glass Right side window frame Right side window sill Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail. Other right side object (specify):  IOR Seat, back support Belt restraint webbing/buckle Belt restraint B-pillar or door frame attachment point Other restraint system component (specify):	(184) (185) (186) (187) (188) (189) (190)	object held Air bag-passenger side and object in mouth Air bag compartment cover-passenger side Air bag compartment cover-passenger side and eyewear Air bag compartment cover-passenger side and jewelry Air bag compartment cover-passenger side and jewelry Air bag compartment cover-passenger side and object held Air bag compartment cover-passenger side and object in mouth Other air bag (specify)	(412)  EXTERVEHIC (451) (452) (453)  (454)  EXTERVEHIC (501) (502)	(used behind wheel chair) Other adaptive device (specify):  RIOR of OCCUPANT'S CLE Hood Outside hardware (e.g., outside mirror, antenna) Other exterior surface or tires (specify):  Unknown exterior objects RIOR OF OTHER MOTOR CLE Front bumper Hood edge
unvisor teering wheel rim teering wheel hub/spoke teering wheel (combination f codes 004 and 005) teering column, ansmission selector lever, ther attachment tellular telephone or CB adio dd on equipment (e.g., ape deck, air conditioner) aft instrument panel and telow enter instrument panel and telow gight instrument panel and telow tove compartment door nee bolster (indshield including one or ore of the following: front teader, A (A1/A2)-pillar,	(104) (105) (106) (107) (108) (109) (110) (110) (151) (152) (153) (154)	Right A (A1/A2)-pillar Right B-pillar Other right pillar (specify):  Right side window glass Right side window frame Right side window sill Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail. Other right side object (specify):  IOR Seat, back support Belt restraint webbing/buckle Belt restraint B-pillar or door frame attachment point Other restraint system component (specify):	(185) (186) (187) (188) (189) (190)	Air bag-passenger side and object in mouth Air bag compartment cover-passenger side Air bag compartment cover-passenger side and eyewear Air bag compartment cover-passenger side and jewelry Air bag compartment cover-passenger side and jewelry Air bag compartment cover-passenger side and object held Air bag compartment cover-passenger side and object in mouth Other air bag (specify)	EXTER VEHIC (451) (452) (453) (454) EXTER VEHIC (501) (502)	Other adaptive device (specify):  RIOR of OCCUPANT'S CLE Hood Outside hardware (e.g., outside mirror, antenna) Other exterior surface or tires (specify):  Unknown exterior objects RIOR OF OTHER MOTOR CLE Front bumper Hood edge
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enter instrument panel and elow ight instrument panel and elow love compartment door nee bolster findshield including one or ore of the following: front eader, A (A1/A2)-pillar,	(151) (152) (153) (154)	Seat, back support Belt restraint webbing/buckle Belt restraint B-pillar or door frame attachment point Other restraint system component (specify): Head restraint system	(190) (195) ROOF	cover-passenger side and object in mouth Other air bag (specify)  Other air bag compartment	EXTER VEHIC (501) (502)	RIOR OF OTHER MOTOR CLE Front bumper Hood edge
elow  ight instrument panel and  elow  love compartment door  nee bolster  findshield including one or  ore of the following: front  eader, A (A1/A2)-pillar,	(151) (152) (153) (154)	Seat, back support Belt restraint webbing/buckle Belt restraint B-pillar or door frame attachment point Other restraint system component (specify): Head restraint system	(195) ROOF	Other air bag (specify)  Other air bag compartment	VEHIC (501) (502)	CLE Front bumper Hood edge
elow  ight instrument panel and  elow  love compartment door  nee bolster  findshield including one or  ore of the following: front  eader, A (A1/A2)-pillar,	(151) (152) (153) (154)	Seat, back support Belt restraint webbing/buckle Belt restraint B-pillar or door frame attachment point Other restraint system component (specify): Head restraint system	(195) ROOF	Other air bag (specify) Other air bag compartment	VEHIC (501) (502)	CLE Front bumper Hood edge
elow  love compartment door  nee bolster  findshield including one or  ore of the following: front  eader, A (A1/A2)-pillar,	(151) (152) (153) (154)	Seat, back support Belt restraint webbing/buckle Belt restraint B-pillar or door frame attachment point Other restraint system component (specify): Head restraint system	(195) ROOF	Other air bag compartment	(501) (502)	Front bumper Hood edge
elow  love compartment door  nee bolster  findshield including one or  ore of the following: front  eader, A (A1/A2)-pillar,	(152) (153) (154) (155)	Belt restraint webbing/buckle Belt restraint B-pillar or door frame attachment point Other restraint system component (specify): Head restraint system	ROOF		(502)	Hood edge
love compartment door nee bolster /indshield including one or ore of the following: front pader, A (A1/A2)-pillar,	(153) (154) (155)	Belt restraint B-pillar or door frame attachment point Other restraint system component (specify): Head restraint system	ROOF			
nee bolster /indshield including one or ore of the following: front pader, A (A1/A2)-pillar,	(154) (155)	frame attachment point Other restraint system component (specify): Head restraint system		cover (specify)		
findshield including one or or or or or or or or the following: front pader, A (A1/A2)-pillar,	(155)	Other restraint system component (specify):  Head restraint system				
ore of the following: front sader, A (A1/A2)-pillar,	(155)	component (specify):  Head restraint system				(specify):
eader, A (A1/A2)-pillar,		Head restraint system		1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
			(201)		(504)	Hood
strument panel, mirror, or			14UI)	Front header		Hood ornament
				Rear header		
eering assembly (driver				Roof left side rail		Windshield, roof rail, A-pilla
de only)				Roof right side rail		Side surface
findshield including one or	(161)	Interior loose objects				Side mirrors
ore of the following: front		Child safety seat (specify):	(200)	Roof or convertible top	(509)	Other side protrusions
eader, A (A1/A2)-pillar,	,.021	ound select sear (specity):				(specify):
strument panel, or mirror	/100	Other investor 11	FLOOI		: :	
	(163)	Other interior object		Floor (including toe pan)	(510)	Rear surface
assenger side only)		(specify):	(252)	Floor or console mounted		Undercarriage
indshield reinforced by				transmission lever, including		Tires and wheels
terior object (specify)				console		Other exterior of other motor
	AIR BA	NG	(253)	Parking brake handle		vehicle (specify):
ther front object (specify):	(170)	Air bag-driver side		Foot controls including		
	(171)	Air bag-driver side and	•	parking brake	/E 1 A	Helenous
		eyewear			(514)	Unknown exterior of other
E	(172)	Air bag-driver side and	REAR			motor vehicle
ft side interior surface,		jeweiry		Destillate t		
cluding hardware or	(172)	· ·	(301)	Backlight (rear window)		R VEHICLE OR OBJECT IN
mrests	(1/3)	Air bag-driver side and object	(302)	Backlight storage rack,		NVIRONMENT
ft side hardware or		held .		door, etc.		Ground
	(174)	Air bag-driver side and object	(303)	Other rear object (specify):		Other vehicle or object
mrest		in mouth				(specify):
ft A (A1/A2)-pillar	(175)	Air bag compartment				
ft B-pillar		cover-driver side	ADAP	TIVE (ASSISTIVE) DRIVING	/E001	Unknown
her left pillar (specify):	(176)	Air bag compartment	EQUIP		(222)	Unknown vehicle or object
		cover-driver side and				
ft side window glass			(+01)			ONTACT INJURY
ft side window frame	(177)	•	1400		(601)	Fire in vehicle
	,		(402)			Flying glass
π side window sili	/1701				(603)	Other noncontact injury
	(1/0)			wheel)		source
ft side window glass			(403)	Steering knob attached to		(specify):
ft side window glass cluding one or more of the				steering wheel	(604)	Air bag exhaust gases
ft side window glass cluding one or more of the llowing: frame, window	(179)		(405)	Replacement steering wheel	(697)	Injured, unknown source
ft side window glass cluding one or more of the llowing: frame, window , A (A1/A2)-pillar, B-pillar,		cover-driver side and object			,007)	,
ft side window glass cluding one or more of the lowing: frame, window , A (A1/A2)-pillar, B-pillar, roof side rail.		_	(406)	Joy stick steering controls		
ft side window glass cluding one or more of the llowing: frame, window , A (A1/A2)-pillar, B-pillar, roof side rail. her left side object		Air bag-passenger side	(407)	Wheelchair tie-downs		
ft side window glass cluding one or more of the lowing: frame, window , A (A1/A2)-pillar, B-pillar, roof side rail.	(180)		(408)	Modification to accest		
ft side window glass cluding one or more of the llowing: frame, window , A (A1/A2)-pillar, B-pillar, roof side rail. her left side object			1-700)			
ft side window glass cluding one or more of the lowing: frame, window l, A (A1/A2)-pillar, B-pillar, roof side rail. her left side object pecify):	(181)	CAE MASI	14000			
ft side window glass cluding one or more of the llowing: frame, window , A (A1/A2)-pillar, B-pillar, roof side rail. her left side object	(181)		(409)			
ft side window glass cluding one or more of the lowing: frame, window l, A (A1/A2)-pillar, B-pillar, roof side rail. her left side object becify):	(181)	Air bag-passenger side and				
ft side window glass cluding one or more of the llowing: frame, window l, A (A1/A2)-pillar, B-pillar, roof side rail. her left side object pecify):  DE pht side interior surface,	(181)	Air bag-passenger side and		switches, (specify):		
ft	side window frame side window sill side window glass ding one or more of the wing: frame, window A (A1/A2)-pillar, of side rail.	side window frame (177) side window sill side window glass (178) ding one or more of the wing: frame, window A (A1/A2)-pillar, B-pillar, of side rail. r left side object cify): (180)	side window glass side window frame side window sill side window glass ding one or more of the wing: frame, window A (A1/A2)-pillar, B-pillar, of side rail. r left side object ciffy):  (180) Air bag-passenger side (181) Air bag-passenger side and eyewear (182) Air bag-passenger side and	side window glass side window frame side window sill side window glass ding one or more of the wing: frame, window A (A1/A2)-pillar, B-pillar, of side rail. r left side object in mouth (180) Air bag-passenger side and eyewear (181) Air bag-passenger side and eyewear (182) Air bag-passenger side and (409)	side window glass side window frame (177) Air bag compartment cover-driver side and jewelry ding one or more of the wing: frame, window A (A1/A2)-pillar, of side rail. r left side object in refet side object (180) Air bag-passenger side (181) Air bag-passenger side and eyewear  (177) Air bag compartment cover-driver side and jewelry (A02) Steering control devices (attached to OEM steering wheel) (403) Steering knob attached to steering wheel (i.e., reduced diameter) (406) Joy stick steering controls (407) Wheelchair tie-downs (408) Modification to seat belts, eyewear  (409) Additional versions	side window glass side window sill side window glass ding one or more of the wing: frame, window A (A1/A2)-pillar, B-pillar, of side rail. r left side object in mouth cify):  (180) Air bag-passenger side (181) Air bag-passenger side and eyewear  (182) Air bag-passenger side and specify:  (183) Air bag-passenger side and specify: (184) Air bag-passenger side and eyewear  (185) Air bag-passenger side and eyewear  (186) Air bag-passenger side and eyewear  (187) Steering control devices (602) (403) Steering knob attached to steering wheel (604) Replacement steering wheel (697) (i.e., reduced diameter) Joy stick steering controls (407) Wheelchair tie-downs (408) Modification to seat belts, (specify): (specify): (187) Air bag-passenger side and eyewear (188) Air bag-passenger side and eyewear

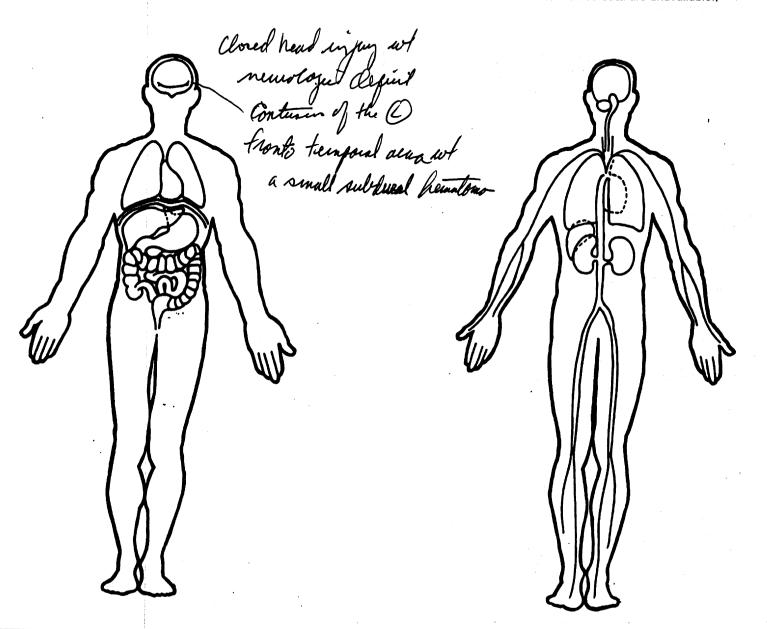
	OFFICIAL INJURY DATA — SOFT TISSUE INJURIES
Restrained?	Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)
No	
Yes	Dremotom & effere over O scalgare
Blood Alcohol Level (mg/dl)	Over O seals are
BAL =	
Glasgow Coma Scale Score	
GCSS =	
Units of Blood Given Units =	
Arterial Blood Gases	
pH =	
PO <sub>2</sub> =	
HCO <sub>3</sub>	

## OFFICIAL INJURY DATA — SKELETAL INJURIES





# OFFICIAL INJURY DATA -INTERNAL INJURIES



## **GENERAL VEHICLE FORM**

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

	CRASHWOKTHINESS DATA SYSTEM
Primary Sampling Unit Number	12. Speed Limit (000) No statutory limit
2. Case Number - Stratum 96 - 13	Code posted or statutory speed limit in kmph
3. Vehicle Number	(999) Unknown
VEHICLE IDENTIFICATION	mph X 1.6093 = kmph
4. Vehicle Model Year Code the last two digits of the model year (99) Unknown	13. Police Reported Alcohol Presence For Driver (O) No alcohol present (1) Yes alcohol present (7) Not reported
5. Vehicle Make (specify): 55—	(8) No driver present (9) Unknown
Applicable codes are found in your NASS Data Collection, Coding and Editing Manual.  (99) Unknown	14. Alcohol Test Result For Driver Code actual value (decimal implied before first digit – 0.xx) (95) Test refused
6. Vehicle Model (specify):  Applicable codes are found in your NASS Data Collection, Coding and	(96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown
Editing Manual. (999) Unknown	Source:
7. Body Type  Note: Applicable codes may be found on the back of this page.	15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present
8. Vehicle Identification Number	<ul><li>(1) Yes other drug(s) present</li><li>(7) Not reported</li><li>(8) No driver present</li></ul>
4A3CS54U6ME(Serial Formula 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 Left justify; Slash zeros and letter Z (0 and Z) No VIN—Code all zeros Unknown—Code all nines	(9) Unknown  16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify):
9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus	
(4) Military (5) Police	17. Driver's Zip Code
<ul><li>(6) Ambulance</li><li>(7) Fire truck or car</li><li>(8) Other (specify):</li></ul>	(00001) Driver not a resident of U.S. or territories
(9) Unknown OFFICIAL RECORDS	Code actual 5-digit zip code (99998) No driver present (99999) Unknown
3	(33333) CHRIDWII
10. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic)
11. Police Reported Travel Speed Code to the nearest kmph (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above	<ul> <li>(4) Black (Hispanic)</li> <li>(5) American Indian, Eskimo or Aleut</li> <li>(6) Asian or Pacific Islander</li> <li>(7) Other (specify):</li> </ul>
(999) Unknown	(8) No driver present (9) Unknown
mph X 1.6093 = kmph	

	PRECRASH ENVIRONMENTAL DATA			
		25.	Roadway Surface Condition	1
19.	Relation To Interchange Or Junction	1	(1) Dry	<del></del>
	(0) Non-interchange area and non-junction		(2) Wet	
	(1) Interchange area related	İ	(3) Snow or slush	
	(1) interestange area related		(4) Ice	
	Non-Interchange junctions		(5) Sand, dirt, or oil	
	(2) Intersection related		(8) Other (specify):	~
		1	(9) Unknown	
	(3) Driveway, alley access related		(5) Olikilowii	
	(4) Other junction (specify)	ĺ		
	(E) Haliman A. (1)	26.	Light Conditions	5
	(5) Unknown type of junction		(1) Daylight	
	(0) Halinavia		(2) Dark	
	(9) Unknown		(3) Dark, but lighted	
			(4) Dawn	
~~	A		(5) Dusk	
20.	Trafficway Flow		(9) Unknown	
	(O) Not physically divided (two way traffic)			
	(1) Divided trafficway-median strip without			
	positive barrier	27.	Atmospheric Conditions	$\wedge$
	(2) Divided trafficway-median strip with positive		(0) No adverse atmospheric-related driving	
	barrier	ĺ	conditions	
	(3) One way traffic		(1) Rain	
	(9) Unknown		(2) Sleet/hail	
			(3) Snow	
21	Number Of Travel Lanes	1	(4) Fog	
			(5) Rain and fog	
	(1) One	l	(6) Sleet and fog	
	(2) Two			
	(3) Three		(7) Other (e.g., smog, smoke, blowing sand of dust, etc.) (specify):	r
	(4) Four		dust, etc., (specify):	
	(5) Five	:	(9) Unknown	
	(6) Six		(9) Olikilowii	
	(7) Seven or more	20	Traffic Control Device	<u> </u>
	(9) Unknown	20.	(0) No traffic control(s)	$\mathcal{Q}$
	1			
22.	Roadway Alignment		(1) Traffic control signal (not RR crossing)	
	(1) Straight		Populatani	
	(2) Curve right		Regulatory	
	(3) Curve left		(2) Stop sign	
	(9) Unknown		(3) Yield sign	
	, , ,		(4) School zone sign	
•	_ , 1		(5) Other regulatory sign (specify):	
	Roadway Profile	l	(6) Warning sign (see 22	
	(1) Level		(6) Warning sign (not RR crossing)	
	(2) Uphill grade (>2%)	l	(7) Unknown sign	
	(3) Hill crest		(8) Miscellaneous/other controls including RR	
	(4) Downhill grade (>2%)		controls (specify):	
	(5) Sag		(0)	
	(9) Unknown		(9) Unknown	
	•			
24	Roadway Surface Type	20	Traffic Court I B	_
	(1) Concrete	∠9.	Traffic Control Device Functioning	_Q
	(1) Concrete (2) Bituminous (asphalt)		(0) No traffic control device	
	(3) Brick or block		(1) Traffic control device not functioning	
		l	(specify):	
	(4) Slag, gravel, or stone (5) Dirt		(0) 7 . ("	
	(8) Other (specify):		(2) Traffic control device functioning properly	
	(9) Unknown		(9) Unknown	
	(O) CHAHOWH			
		l		

	PF	RECRASH DRIVER RELATED DATA	THIS VEHICLE TRAVELLING
30.	Drive	er's Distraction/Inattention To Driving	(10) Over the lane line on left side of travel lane
	(Prio	r To Recognition Of Critical Event)	(11) Over the lane line on right side of travel lane
	(00)	No driver present	(11) Over the lane line on right side of travel lane
	(01)	Attentive or not distracted	(12) Off the edge of the road on the left side
	(02)	Looked but did not see	(13) Off the edge of the road on the right side
	,		(14) End departure
	(00)	Distractions	(15) Turning left at intersection
	(03)	By other occupant(s), (specify):	(16) Turning right at intersection
			(17) Crossing over (passing through) intersection
	(04)	By moving object in vehicle (specify):	(18) This vehicle decelerating
	(0.5)		(19) Unknown travel direction
	(05)	While talking or listening to cellular phone (specify	
		location and type of phone):	OTHER MOTOR VEHICLE IN LANE
	(00)		(50) Other vehicle stopped
	(06)	While dialing cellular phone (specify location and	(51) Traveling in same direction with lower steady
		type of phone):	speed
	(07)		(52) Traveling in same direction while decelerating
	(07)	While adjusting climate controls	(53) Traveling in same direction with higher speed
	(08)	While adjusting radio, cassette, CD (specify):	(54) Traveling in opposite direction
	(0.0)		(55) In crossover
	(09)	While using other device/controls integral to vehicle	(56) Backing
		(specify):	(50) Linkmourn trough dispetion of attendance to the
	(10)	While using or reaching for device/object brought	(59) Unknown travel direction of other motor vehicle in
		into vehicle (specify):	lane
	(11)	Sleepy or fell asleep	
	(12)	Distracted by outside person, object, or event	OTHER MOTOR VEHICLE ENCROACHING INTO
		(specify):	LANE
	(13)	Eating or drinking	(60) From adjacent lane (same direction)—over left lane
	(14)	Smoking related	line
	(97)	Distracted/inattentive, details unknown	(61) From adjacent lane (same direction)—over right
	(98)	Other, distraction (specify):	lane line
			(62) From opposite direction—over left lane line
	(99)	Unknown	(63) From opposite direction—over right lane line
31.	Pre-l	Event Movement (Prior to	(64) From parking lane
	Reco	ognition of Critical Event)	(65) From crossing street, turning into same direction
	(00)	Ale del constant at the	College and the second serving with partie of the college
		No driver present	(66) From crossing street, across nath
		No driver present Going straight	(66) From crossing street, across path
	(01)	Going straight	(66) From crossing street, across path (67) From crossing street, turning into opposite direction
	(01) (02)	Going straight Decelerating in traffic lane	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> </ul>
	(01) (02) (03)	Going straight Decelerating in traffic lane Accelerating in traffic lane	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> </ul>
	(01) (02) (03) (04)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> <li>(71) From driveway, across path</li> </ul>
	(01) (02) (03) (04) (05)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> <li>(71) From driveway, across path</li> <li>(72) From driveway, turning into opposite direction</li> </ul>
	(01) (02) (03) (04) (05) (06)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> <li>(71) From driveway, across path</li> <li>(72) From driveway, turning into opposite direction</li> <li>(73) From driveway, intended path not known</li> </ul>
	(01) (02) (03) (04) (05) (06) (07)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway
	(01) (02) (03) (04) (05) (06) (07) (08)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> <li>(71) From driveway, across path</li> <li>(72) From driveway, turning into opposite direction</li> <li>(73) From driveway, intended path not known</li> </ul>
	(01) (02) (03) (04) (05) (06) (07) (08) (09)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown
	(01) (02) (03) (04) (05) (06) (07) (08) (09) (10)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown
	(01) (02) (03) (04) (05) (06) (07) (08) (09) (10) (11)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST
	(01) (02) (03) (04) (05) (06) (07) (08) (09) (10) (11) (12)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway
	(01) (02) (03) (04) (05) (06) (07) (08) (09) (10) (11) (12) (13)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position)	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway (81) Pedestrian approaching roadway
	(01) (02) (03) (04) (05) (06) (07) (08) (09) (10) (11) (12) (13) (14)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway (81) Pedestrian approaching roadway
	(01) (02) (03) (04) (05) (06) (07) (08) (09) (10) (11) (12) (13) (14) (15)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway (81) Pedestrian approaching roadway (82) Pedestrian—unknown location
	(01) (02) (03) (04) (05) (06) (07) (08) (10) (11) (12) (13) (14) (15) (16)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway (81) Pedestrian approaching roadway (82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (specify):
	(01) (02) (03) (04) (05) (06) (07) (08) (10) (11) (12) (13) (14) (15) (16)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway (81) Pedestrian approaching roadway (82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (specify):
	(01) (02) (03) (04) (05) (06) (07) (08) (10) (11) (12) (13) (14) (15) (16) (17)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway (81) Pedestrian approaching roadway (82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (specify): (84) Pedalcyclist or other nonmotorist approaching
	(01) (02) (03) (04) (05) (06) (07) (08) (10) (11) (13) (14) (15) (16) (17) (97)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify):	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway (81) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (specify): (84) Pedalcyclist or other nonmotorist approaching roadway. (specify):
20	(01) (02) (03) (04) (05) (06) (07) (08) (10) (11) (12) (13) (14) (15) (16) (17) (97) (99)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway (81) Pedestrian approaching roadway (82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (specify):  (84) Pedalcyclist or other nonmotorist approaching roadway, (specify):  (85) Pedalcyclist or other nonmotorist—unknown
32.	(01) (02) (03) (04) (05) (06) (07) (08) (10) (11) (12) (13) (14) (15) (16) (17) (97) (99) Critic	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown all Precrash Event	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway (81) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (specify): (84) Pedalcyclist or other nonmotorist approaching roadway. (specify):
32.	(01) (02) (03) (04) (05) (06) (07) (08) (10) (11) (12) (13) (14) (15) (16) (17) (97) (99) Critic	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown all Precrash Event	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> <li>(71) From driveway, across path</li> <li>(72) From driveway, turning into opposite direction</li> <li>(73) From driveway, intended path not known</li> <li>(74) From entrance to limited access highway</li> <li>(78) Encroachment by other vehicle—details unknown</li> <li>PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST</li> <li>(80) Pedestrian in roadway</li> <li>(81) Pedestrian approaching roadway</li> <li>(82) Pedestrian—unknown location</li> <li>(83) Pedalcyclist or other nonmotorist in roadway (specify):</li> <li>(84) Pedalcyclist or other nonmotorist approaching roadway, (specify):</li> <li>(85) Pedalcyclist or other nonmotorist—unknown location (specify):</li> </ul>
32.	(01) (02) (03) (04) (05) (06) (07) (08) (10) (11) (12) (13) (14) (15) (16) (17) (97) (99) Critic	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown cal Precrash Event	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> <li>(71) From driveway, across path</li> <li>(72) From driveway, turning into opposite direction</li> <li>(73) From driveway, intended path not known</li> <li>(74) From entrance to limited access highway</li> <li>(78) Encroachment by other vehicle—details unknown</li> <li>PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST</li> <li>(80) Pedestrian in roadway</li> <li>(81) Pedestrian—unknown location</li> <li>(82) Pedestrian—unknown location</li> <li>(83) Pedalcyclist or other nonmotorist in roadway (specify):</li> <li>(84) Pedalcyclist or other nonmotorist approaching roadway, (specify):</li> <li>(85) Pedalcyclist or other nonmotorist—unknown location (specify):</li> </ul>
32.	(01) (02) (03) (04) (05) (06) (07) (08) (10) (11) (12) (13) (14) (15) (16) (17) (99) Critic (11)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown cal Precrash Event  **VEHICLE LOSS OF CONTROL DUE TO:** Blow out or flat tire	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway (81) Pedestrian approaching roadway (82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (specify): (84) Pedalcyclist or other nonmotorist approaching roadway, (specify): (85) Pedalcyclist or other nonmotorist—unknown location (specify):  OBJECT OR ANIMAL (87) Animal in roadway
32.	(01) (02) (03) (04) (05) (06) (07) (08) (10) (11) (12) (13) (14) (15) (16) (17) (97) (99) Critic THIS (01) (02)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown cal Precrash Event VEHICLE LOSS OF CONTROL DUE TO: Blow out or flat tire Stalled engine	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, turning into opposite direction (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway (81) Pedestrian approaching roadway (82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (specify): (84) Pedalcyclist or other nonmotorist approaching roadway, (specify): (85) Pedalcyclist or other nonmotorist—unknown location (specify):  OBJECT OR ANIMAL (87) Animal in roadway (88) Animal approaching roadway
32.	(01) (02) (03) (04) (05) (06) (07) (08) (10) (11) (12) (13) (14) (15) (17) (99) Critic (71) (01) (02) (03)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown cal Precrash Event  **VEHICLE LOSS OF CONTROL DUE TO:* Blow out or flat tire Stalled engine Disabling vehicle failure (e.g., wheel fell off) (specify):	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, across path (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway (81) Pedestrian approaching roadway (82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (specify):
32.	(01) (02) (03) (04) (05) (06) (07) (08) (10) (11) (12) (13) (14) (15) (17) (99) Critic (17) (01) (02) (03)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown cal Precrash Event  **VEHICLE LOSS OF CONTROL DUE TO:* Blow out or flat tire Stalled engine Disabling vehicle failure (e.g., wheel fell off) (specify):	(66) From crossing street, across path (67) From crossing street, turning into opposite direction (68) From crossing street, intended path not known (70) From driveway, turning into same direction (71) From driveway, across path (72) From driveway, across path (73) From driveway, intended path not known (74) From entrance to limited access highway (78) Encroachment by other vehicle—details unknown  PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST (80) Pedestrian in roadway (81) Pedestrian approaching roadway (82) Pedestrian—unknown location (83) Pedalcyclist or other nonmotorist in roadway (specify):
32.	(01) (02) (03) (04) (05) (06) (07) (08) (09) (11) (12) (13) (14) (15) (17) (97) (99) Critic THIS (01) (02) (03)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown cal Precrash Event  VEHICLE LOSS OF CONTROL DUE TO: Blow out or flat tire Stalled engine Disabling vehicle failure (e.g., wheel fell off) (specify): Non-disabling vehicle problem (e.g., hood flew up) (specify):	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> <li>(71) From driveway, across path</li> <li>(72) From driveway, turning into opposite direction</li> <li>(73) From driveway, intended path not known</li> <li>(74) From entrance to limited access highway</li> <li>(78) Encroachment by other vehicle—details unknown</li> <li>PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST</li> <li>(80) Pedestrian in roadway</li> <li>(81) Pedestrian approaching roadway</li> <li>(82) Pedestrian—unknown location</li> <li>(83) Pedalcyclist or other nonmotorist in roadway (specify):</li></ul>
32.	(01) (02) (03) (04) (05) (06) (07) (08) (09) (11) (12) (13) (14) (15) (17) (97) (99) Critic THIS (01) (02) (03)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown cal Precrash Event  VEHICLE LOSS OF CONTROL DUE TO: Blow out or flat tire Stalled engine Disabling vehicle failure (e.g., wheel fell off) (specify): Non-disabling vehicle problem (e.g., hood flew up) (specify):	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> <li>(71) From driveway, across path</li> <li>(72) From driveway, turning into opposite direction</li> <li>(73) From driveway, intended path not known</li> <li>(74) From entrance to limited access highway</li> <li>(78) Encroachment by other vehicle—details unknown</li> <li>PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST</li> <li>(80) Pedestrian in roadway</li> <li>(81) Pedestrian approaching roadway</li> <li>(82) Pedestrian—unknown location</li> <li>(83) Pedalcyclist or other nonmotorist in roadway (specify):</li></ul>
32.	(01) (02) (03) (04) (05) (06) (07) (08) (09) (11) (12) (13) (14) (15) (17) (97) (99) Critic THIS (01) (02) (03)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown cal Precrash Event  **VEHICLE LOSS OF CONTROL DUE TO:* Blow out or flat tire Stalled engine Disabling vehicle failure (e.g., wheel fell off) (specify): Non-disabling vehicle problem (e.g., hood flew up)	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> <li>(71) From driveway, across path</li> <li>(72) From driveway, turning into opposite direction</li> <li>(73) From driveway, intended path not known</li> <li>(74) From entrance to limited access highway</li> <li>(78) Encroachment by other vehicle—details unknown</li> <li>PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST</li> <li>(80) Pedestrian in roadway</li> <li>(81) Pedestrian approaching roadway</li> <li>(82) Pedestrian—unknown location</li> <li>(83) Pedalcyclist or other nonmotorist in roadway (specify):</li></ul>
32.	(01) (02) (03) (04) (05) (06) (07) (08) (09) (11) (12) (13) (14) (15) (17) (97) (99) Critic THIS (01) (02) (03) (04)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown cal Precrash Event  VEHICLE LOSS OF CONTROL DUE TO: Blow out or flat tire Stalled engine Disabling vehicle failure (e.g., wheel fell off) (specify): Non-disabling vehicle problem (e.g., hood flew up) (specify): Poor road conditions (puddle, pot hole, ice, etc.) (specify):	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> <li>(71) From driveway, across path</li> <li>(72) From driveway, turning into opposite direction</li> <li>(73) From driveway, intended path not known</li> <li>(74) From entrance to limited access highway</li> <li>(78) Encroachment by other vehicle—details unknown</li> <li>PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST</li> <li>(80) Pedestrian in roadway</li> <li>(81) Pedestrian approaching roadway</li> <li>(82) Pedestrian—unknown location</li> <li>(83) Pedalcyclist or other nonmotorist in roadway (specify):</li></ul>
32.	(01) (02) (03) (04) (05) (06) (07) (08) (09) (11) (12) (13) (14) (15) (17) (97) (99) Critic (71) (02) (03) (04) (05) (06)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown cal Precrash Event  **VEHICLE LOSS OF CONTROL DUE TO:* Blow out or flat tire Stalled engine Disabling vehicle failure (e.g., wheel fell off) (specify): Non-disabling vehicle problem (e.g., hood flew up) (specify): Poor road conditions (puddle, pot hole, ice, etc.) (specify): Traveling too fast for conditions	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> <li>(71) From driveway, across path</li> <li>(72) From driveway, turning into opposite direction</li> <li>(73) From driveway, intended path not known</li> <li>(74) From entrance to limited access highway</li> <li>(78) Encroachment by other vehicle—details unknown</li> <li>PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST</li> <li>(80) Pedestrian in roadway</li> <li>(81) Pedestrian approaching roadway</li> <li>(82) Pedestrian—unknown location</li> <li>(83) Pedalcyclist or other nonmotorist in roadway (specify):</li></ul>
32.	(01) (02) (03) (04) (05) (06) (07) (08) (09) (11) (12) (13) (14) (15) (17) (97) (99) Critic (71) (02) (03) (04) (05) (06)	Going straight Decelerating in traffic lane Accelerating in traffic lane Starting in traffic lane Stopped in traffic lane Passing or overtaking another vehicle Disabled or parked in travel lane Leaving a parking position Entering a parking position Turning right Turning left Making a U-turn Backing up (other than for parking position) Negotiating a curve Changing lanes Merging Successful avoidance maneuver to a previous critical event Other (specify): Unknown cal Precrash Event  VEHICLE LOSS OF CONTROL DUE TO: Blow out or flat tire Stalled engine Disabling vehicle failure (e.g., wheel fell off) (specify): Non-disabling vehicle problem (e.g., hood flew up) (specify): Poor road conditions (puddle, pot hole, ice, etc.) (specify):	<ul> <li>(66) From crossing street, across path</li> <li>(67) From crossing street, turning into opposite direction</li> <li>(68) From crossing street, intended path not known</li> <li>(70) From driveway, turning into same direction</li> <li>(71) From driveway, across path</li> <li>(72) From driveway, turning into opposite direction</li> <li>(73) From driveway, intended path not known</li> <li>(74) From entrance to limited access highway</li> <li>(78) Encroachment by other vehicle—details unknown</li> <li>PEDESTRIAN, PEDALCYCLIST, OR OTHER NONMOTORIST</li> <li>(80) Pedestrian in roadway</li> <li>(81) Pedestrian approaching roadway</li> <li>(82) Pedestrian—unknown location</li> <li>(83) Pedalcyclist or other nonmotorist in roadway (specify):</li></ul>

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33.	Attempted Avoidance Maneuver (00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering left (12) Accelerating and steering right (98) Other action (specify):	35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown  36. Accident Type (Note: Applicable codes on back of this page)
34.	Pre-Impact Stability  (0) No driver present  (1) Tracking  (2) Skidding longitudinally—rotation less than 30 degrees  (3) Skidding laterally—clockwise rotation  (4) Skidding laterally—counterclockwise rotation  (7) Other vehicle loss-of-control (specify):  (9) Precrash stability unknown	(00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify):  (99) Unknown
	STOP HERE IF GV07 DC	DES NOT EQUAL 01 - 49

	OCCUPANT RELATED	44. Vehicle Cargo Weight O 0 0
37.	Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown	10 kilograms. (000) Less than 5 kilograms (454) 4,536 kilograms or more (999) Unknown
38.	Number of Occupants This Vehicle O / (00-96) Code actual number of occupants for this vehicle (97) 97 or more	, lbs X .4536 =, kgs Source: ROLLOVER DATA
	(99) Unknown	45. Rollover
39.	Number of Occupant Forms Submitted	(00) No rollover (no overturning)
	AIR BAG RELATED	Rollover (primarily about the longitudinal axis) (01-16) Code the number of quarter turns
40.	Is this an AOPS Vehicle?  (0) No (includes unknown) (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts	(17) Rollover, 17 or more quarter turns (specify): (98) Rolloverend-over-end (i.e., primarily about the lateral axis) (99) Rollover (overturn), details unknown  46. Rollover Initiation Type (00) No rollover
41.	Air Bag(s) Deployment, First Seat Frontal (0) Not equipped or not available (1) No air bags deployed  Single Air Bag Vehicle	(00) No foliover (01) Trip-over (02) Flip-over (03) Turn-over (04) Climb-over (05) Fall-over
	(2) Driver air bag deployed (3) Driver air bag, unknown if deployed	(06) Bounce-over (07) Collision with another vehicle
	Multiple Air Bag Vehicle  (4) Driver side only deployed  (5) Passenger side only deployed  (6) Driver and passenger side deployed  (7) Driver and passenger side unknown if deployed	(08) Other rollover initiation type specify):  (98) Rolloverend-over-end (99) Unknown rollover initiation type  47. Location of Rollover Initiation (0) No rollover
42.	(8) Air bag(s) deployed, details unknown (9) Unknown  Air Bag(s) Deployment, Other Than First Seat Frontal	<ul> <li>(1) On roadway</li> <li>(2) On shoulder—paved</li> <li>(3) On shoulder—unpaved</li> <li>(4) On roadside or divided trafficway median</li> <li>(8) Rolloverend-over-end</li> </ul>
	(0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of	(9) Unknown
	impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event	48. Rollover Initiation Object Contacted (Note: Applicable codes on back of page)
	during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed	49. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires
	(7) Nondeployed (9) Unknown	(2) Side plane (3) End plane
	Specify type of "other" air bag present:	(4) Undercarriage (5) Other location on vehicle (specify):
		(6) Non-contact rollover forces (specify):
	VEHICLE WEIGHT ITEMS	(8) Rolloverend-over-end (9) Unknown
43	Vehicle Curb Weight Code weight to nearest 10 kilograms. (045) Less than 454 kilograms (612) 6,124 kilograms or more (999) Unknown Hoss 1,4536 =, kgs	50. Direction of Initial Roll (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (8) Rolloverend-over-end (9) Unknown roll direction
	Source:	(5) Sharewitten direction

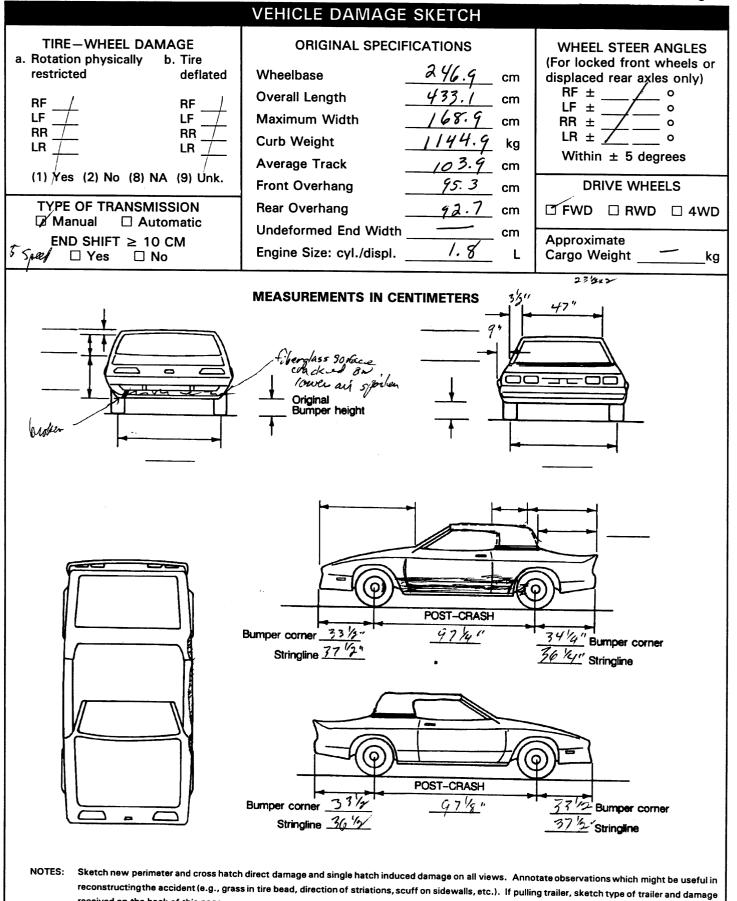
### OVERRIDE/UNDERRIDE (THIS VEHICLE) **ACCIDENT RECONSTRUCTION PROGRAMS** HIGHEST DELTA V 51. Front Override/Underride (this Vehicle) 52. Rear Override/Underride (this Vehicle) 58. Basis for Total (Resultant) Delta V (0) No override/underride, or not an end-to-end (highest) impact between two CDS applicable vehicles, and no medium/heavy truck or bus underride (00) No vehicle inspection Override (see specific CDC) Delta V Calculated [Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)] (01) Reconstruction program-damage only routine (1) 1st CDC (02) Reconstruction program-damage and (2) 2nd CDC trajectory routine (3) Other not automated CDC (specify): (03) Missing vehicle algorithm Delta V Not Calculated Underride (see specific CDC) (04) At least one vehicle (which may be this [Between 2 CDS applicable vehicles (Bodytype, GV07 = 1-49)] (4) 1st CDC vehicle) is beyond the scope of an acceptable reconstruction program, (5) 2nd CDC (6) Other not automated CDC (specify): regardless of collision conditions. All vehicles within scope (CDC applicable) of (7) Medium/heavy truck or bus override (of any reconstuction program but one of the collision configuration) conditions is beyond the scope of the (9) Unknown reconstruction program or other acceptable HEADING ANGLE AT IMPACT FOR reconstruction technique, regardless of adequacy HIGHEST DELTA V of damage data. Values: (000)-(359) Code actual value (05) Rollover (996) Non-horizontal impact (06) Other non-horizontal forces (997) Noncollision (07) Sideswipe type damage (998) Impact with object (08) Severe override (999) Unknown (09) Yielding object 53. Heading Angle For This Vehicle (10) Overlapping damage (11) All vehicle and collision conditions are within 54. Heading Angle For Other Vehicle scope of one of the acceptable RECONSTRUCTION DATA reconstruction programs, but there is insufficient data available, (specify): 55. Towed Trailing Unit 6 (0) No towed unit (1) Yes-towed trailing unit (9) Unknown 56. Documentation of Trajectory Data for This Vehicle (98) Other, (specify): (O) No (1) Yes 57. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify): (9) Unknown

	COMPUTER GENERAL	ED	CRASH SEVERITY
59.	Total Delta V  Highest  — /	63.	Impact Speed  Highest  ### ### ### ### ### ################
	Nearest kmph (highest)		Nearest kmph (highest)
	Nearest kmph (secondary)		Nearest kmph (secondary)
	(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown  Highest		(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown
60.	Longitudinal Component of + C Q Q 9		DELTA V CONFIDENCE LEVEL
	Nearest kmph (highest)	64.	Confidence In Reconstruction Program
	Nearest kmph (secondary)  (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown		Results (For Highest Delta V)  (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
61.	Lateral Component of Delta V 🕀 Highest		OTHER SPEED ESTIMATE
	Nearest kmph (highest)	65.	Highest Barrier Equivalent Speed
	Nearest kmph (secondary)		014
	(NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph)  ±160) ±159.5 kmph and above		Nearest kmph (highest) Nearest kmph (secondary)
62.			(NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknown
	Nearest 100 joules (highest)		
	Nearest 100 joules (secondary)  (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown		

ESTIMATED DELTA V	ata System: General Vehicle Form Page 8 INSPECTION TYPE
66. Estimated Highest Delta V (Researcher Determined) (0) Reconstruction Delta V coded  Estimated Delta V (1) Less than 10 kmph (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph  Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown	67. Type of Vehicle Inspection (0) No inspection (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): (3) Complete inspection  DELTA V EVENT NUMBER  68. Delta V Event Number  Code the accident event sequence number that resulted in the Delta V that has been coded above for this vehicle (99) Unknown
	VAS NOT INSPECTED (I.E., GV67=0), *** OR AND INTERIOR VEHICLE FORMS

\*\*\* IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE \*\*\* THE EXTERIOR VEHICLE, INTERIOR VEHICLE, OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

BEST AVAILABLE U.S. Department of Transportation National Highway Traffic Safety **EXTERIOR VEHICLE FORM** NATIONAL ACCIDENT SAMPLING SYSTEM Administration CRASHWORTHINESS DATA SYSTEM 1. Primary Sampling Unit Number 3. Vehicle Number 02 2. Case Number - Stratum **VEHICLE IDENTIFICATION** VIN 4 A 3 C S 5 4 U 6 M E Model Year <u>9</u> / Vehicle Make (specify): Mitsubish; Vehicle Model (specify): Eclipse Aug 1990 LOCATOR Locate the end of the damage with respect to the vehicle's damaged center point or bumper corner for end impacts or an undamaged axle for side impacts. Specific Impact No. Location of Direct Damage Location of Field L Location of Max Crush Coursed office Axle CRUSH PROFILE IN CENTIMETERS NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space). Measure C1 to C6 from driver to passenger side in front or rear impacts and rear to front in side impacts. Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush. Use as many lines/columns as necessary to describe each damage profile. Direct Damage Specific Impact Plane of Impact Width Max Field C<sub>5</sub> Number Ce ±D C-Measurements TCBC) Crush 84.0" selow Rub Stub ~ encludy Contento 9.8a 3.8



Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

received on the back of this page.

			CDC	WORKSH	33			
CODES FOR OBJECT CONTACTED								
(01-30)	- Vehicle Nu	umber		(F	57) Fe	ence		
					8) W			
Noncoll					9) Bu			
(31)	Rollover—end	ollover (excludes	s end-over-e	•		tch or culvert		
	Fire or explos		(1) Gr					
(34)	Jackknife	SIOTI				e hydrant		
		it damage (spec	ifv):		3) Cu 34) Br			
			,,,			ther fixed object	(enecify):	
(36)	Noncollision i	njury		, -	., .		(Specify).	
		lision (specify):		(6	(9) Ur	nknown fixed ob	ject	
(39)	Noncollision -	– details unknov	wn	Colli	sion w	rith Nonfixed Ob	iect	
Calliaia	- 14/145 F1			(7	'0) Pa	ssenger car, ligh	nt truck, van,	or other
(41)	With Fixed C	Object n in diameter)			ve	hicle not in-trans	sport	
(42)	Tree (> 10 cm	m in diameter) m in diameter)		(7	(1) M	edium/heavy tru	ck or bus not	in-transport
(43)	Shrubbery or	bush				destrian		
(44)	Embankment			17	3) Cy	clist or cycle her nonmotorist		
(45)	Breakaway no	ole or post (any	diameter)				or conveyan	ce 
, ,	_ value, p	old of post (ally )	ulailletei j		6) Ar	hicle occupant		
Nonbrea	akaway Pole o	r Post			7) Tr			
(50)	Pole or post (	≤ 10 cm in diam	eter)			ailer, disconnect	ed in transno	rt
(51)	Pole or post (	> 10 cm but ≤	30 cm in	(7	9) Ob	oject fell from ve	hicle in-trans	port
(52)	diameter)	> 30 cm in dian		(8	8) Ot	her nonfixed obj	ect (specify):	
(53)	Pole or post (	diameter unknov	neter) vn)	(8	9) <u>U</u> r	known nonfixed	obiect	
	Concrete traff					her event (speci		
(55) (56)	Impact attenu	lator						
(30)	(specify):	parrier (includes	guardrail)	(9	9) Un	known event or	object	
		DEFORMA	HON CLASS	SIFICATION E		NT NUMBER		
Accident		(1) (2)			(4 Spec		(6)	
Event Sequence	Object	Direction of Force	Incremental	(3)	Longiti			(7)
Number	Contacted	of Force (degrees)	Value of Shift	Deformation Location	or La		Damage	Deformation
	<del></del>			Location	Loca	tion Location	Distribution	Extent
0 1	0 1	020		L	7	·	- 5	02
02	6 1/60	360			<del></del>		<u> </u>	
	<u> </u>		. — —	F			w	<u> 0 i</u>
	<del></del>							
							-	<del></del>
					-	_		
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				<del></del>				

		COLLISION	DEFORMA	HON CLAS	SSIFICATIO	N	
HIGHEST	DELTA "V"						
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
4. <u>0</u>	5. <u>O</u>	6/	7. <u> </u>	8	9. <u>E</u>	10. <u>5</u>	11. 05
Second H	lighest Delta "V	**					
12	13	14	15	16	17	18	19
		CRUS	H PROFILE	IN CENTIN	METERS	_	
	The crush pro in the appr	file for the dar	nage described below. (ALL M	in the CDC(s	above should	be documente ITIMETERS.)	d
HIGHEST	DELTA "V"						
20. L	21. 			C <sub>4</sub>		C <sub>6</sub>	22. ±D
197	00/	010	006	2060	004 0	04 E	000
Second H	lighest Delta "V	"					
23. L	24. 			C <sub>4</sub>		C <sub>6</sub>	25. ±D
						+	
(Code impac (250) (998) (999) 27. Direct (For hi	ormed End Widtle d when highest st is an end plane Code to the ne 250 centimeter No highest sev Unknown  Damage Width ighest severity in Code to the ne 250 centimeter Unknown	severity impact.) arest centimeters or more erity end plane  npact) arest centimete	impact  213	29. Origin. (185)	al Wheelbase Code to the necentimeter 650 centimeter Unknown inches X al Average Trac Code to the nearest centim 185 centimeter Unknown inches X	ers or more  2.54 =  k Width	169

		FUEL SYSTEM
30. Are CDCs Documented but Not Coded on The		35. Location of Fuel Tank-1 Filler Cap
Automated File? (0) No (1) Yes		36. Location of Fuel Tank-2 Filler Cap (0) No fuel tank (1) On back plane (2) Aft of center of the rear wheels (rear axle) on left side plane
31. Researcher's Assessment of Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown  From scene Little  Will be the ren aple	O Nepar	(3) Aft of center of the rear wheels (rear axle) on right side plane (4) Forward of center of the rear wheels (rear axle) on left side plane (5) Forward of center of the rear wheels (rear axle) on right side plane (6) Over the center of the rear wheels (rear
32. Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle?  (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify):	~ / _0_	(7) Over the center of the rear wheels (rear axle) on right side plane (8) Other (specify): (9) Unknown
(00001177)	1	37. Type of Fuel Tank-1
(Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified		38. Type of Fuel Tank-2 (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown
FIRE OCCURRENCE		39. Location of Fuel Tank-1
33. Fire Occurrence (0) No fire  Yes, fire occurred (1) Minor (2) Major (9) Unknown	0	40. Location of Fuel Tank-2 (0) No fuel tank (1) Aft of center of the rear wheels (rear axle) centered (2) Aft of center of the rear wheels (rear axle) left side (3) Aft of center of the rear wheels (rear axle) right side (4) Forward of center of the rear wheels (rear axle) centered
<ul> <li>34. Origin of Fire <ul> <li>(0) No fire</li> <li>(1) Vehicle exterior (front, side, back, top)</li> <li>(2) Exhaust system</li> <li>(3) Fuel tank (and other fuel retention system parts)</li> <li>(4) Engine compartment</li> <li>(5) Cargo/trunk compartment</li> <li>(6) Instrument panel</li> <li>(7) Passenger compartment area</li> <li>(8) Other location (specify):</li> </ul> </li> <li>(9) Unknown</li> </ul>		(5) Forward of center of the rear wheels (rear axle) left side (6) Forward of center of the rear wheels (rear axle) right side (7) Over center of the rear wheels (rear axle) (8) Other (specify): (9) Unknown  41. Damage to Fuel Tank-1  42. Damage to Fuel Tank-2 (0) No fuel tank (1) No damage to fuel tank (2) Deformed, no seam failure (3) Deformed, with a seam failure (4) Punctured (5) Lacerated (ripped) (6) Abraded (scraped) (7) Filler neck separation from the fuel tank (8) Other damage (specify): (9) Unknown

l					
43.	Leakage Location of Fuel System-1	· /	47. Is T	his Vehicle Equipped With More Than	Ď
44.	Leakage Location of Fuel System-2 (0) No fuel tank		i	Fuel Tanks? No (one or two tanks only)	
	(1) No fuel leakage		Yes	- More Than Two Tanks	
	Primary Area Of Leakage			Yes no damage to any tank or filler	
	(2) Tank		(2)	cap and <u>no fuel system leakage</u> Yes <u>no damage</u> to any tank or filler	
	(3) Filler neck		,,	cap but there is fuel system leakage	
	(4) Cap (5) Lines/pump/filter			(specify leakage location):	
	(6) Vent/emission recovery		(3)	Yes damage to an additional tank or	
	(8) Other (specify):		(5/	filler cap and there is fuel system leakage	•
	(9) Unknown			(specify the following):	_
				Type of tank	-
45.	Fuel Type-1	01		Tank location Filler cap location	-
46.	Fuel Type-2	A-1)			
	-	<u>00</u>		Location of leakage	
	Single Fuel Type		(9)	Type of fuel	-
	(00) No fuel tank (01) Gasoline			was site two tanks	
	(02) Diesel				
	(03) CNG (Compressed Natural Gas)			COMMENTS	
	(04) LPG (Liquid Petroleum Gas) also known as Propane				
	(05) LNG (Liquid Natural Gas)				
	(06) Methanol (M100 or M85)				
	(07) Ethanol (E100 or E85) (08) Other (Hydrogen or others) (specify):				
	Electric Powered or Electric/Solar		-		
	Powered Vehicles				
	(10) Lead Acid Battery (11) Nickel-Iron Battery				
(	(12) Nickel-Cadmium Battery				
(	(13) Sodium Metal Chloride Battery				
	(14) Sodium Sulfur Battery (18) Other (Specify):				
,	(98) Other Hybrid (specify):				
(	99) Unknown fuel type				ĺ
					-
	ttt OTOD ID DUG -				ı

\*\*\* STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED \*\*\*

(GV10=0)

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

SAMPLING SYSTEM IESS DATA SYSTEM

contact and not holed by occupant contact

occupant contact

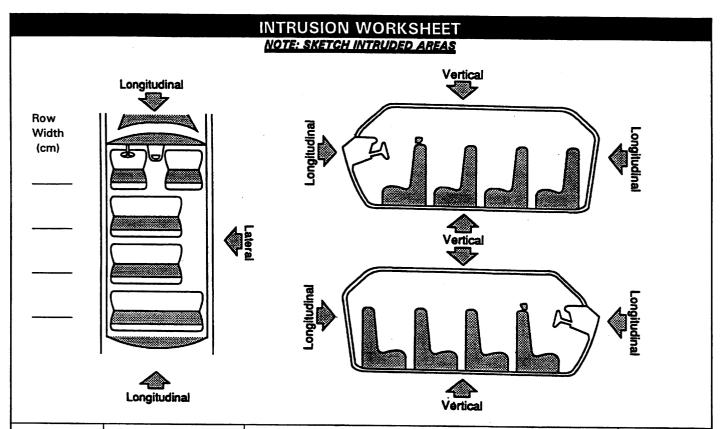
(7) Glazing removed prior to accident (8) Glazing disintegrated by occupant contact (9) Unknown if contacted by occupant

(6) Glazing out-of-place by occupant contact and holed by

National Highway Traffic Safety Administration	<b>INTERIOR VE</b>	HICLE FORM	NATIONAL ACCIDENT SAMPLING SYST CRASHWORTHINESS DATA SYST
1. Primary Sampling Unit Number			GLAZING
	96-13	Type of Window/Wir	dshield Glazing light hint-fa
2. Case Number - Stratum		15. WS <u>/</u> 16. LF <u></u>	17. RF <u>2</u> 18. LR <u>2</u> 19. RR 2
3. Vehicle Number	03	20. BL <u></u> 21. Roof_	<i>⊘</i> 22. Other <i>⊘</i>
INTEGRITY		(0) No glazing	· · ·
4. Passenger Compartment Integrity (00) No integrity loss  Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof	v <u>00</u>	(1) AS-1 — Laminate (2) AS-2 — Tempere (3) AS-3 — Tempere (4) AS-2 — Tempere	d d-tinted (original) d-with after market tint d-tinted (with additional after market tint) lastic
(05) Roof glass (06) Side window	•	(9) Unknown	
(07) Rear window (backlight) (08) Roof and roof glass		Window Precrash Gla	zing Status
(09) Windshield and door (side)	•	23. WS <u>l</u> 24. LF <u>2</u>	25. RF <u>2</u> 26. LR <u>0</u> 27. RR <u>0</u>
<ul> <li>(10) Windshield and roof</li> <li>(11) Side and rear window (side window</li> <li>(12) Windshield and side window</li> <li>(13) Door and side window</li> <li>(98) Other combination of above (specify</li> <li>(99) Unknown</li> </ul>	_	28. BL / 29. Roof / (0) No glazing (1) Fixed (2) Closed (3) Partially opened (4) Fully opened (7) Glazing removed	
Door, Tailgate or Hatch Opening		(9) Unknown	Immed Farra
5. LF / 6. RF / 7. LR / 8. RR	<u>⊘</u> 9. TG/H <u>⊘</u>	Glazing Damage from	33. RF / 34. LR / 35. RR /
(0) No door/gate/hatch (1) Door/gate/hatch remained closed and (2) Door/gate/hatch came open during co (3) Door/gate/hatch jammed shut (8) Other (specify):  (9) Unknown	d operational ollision	(0) No glazing (1) No glazing damag (2) Glazing in place a (3) Glazing in place a (4) Glazing out-of-pla	
Damage/Failure Associated with Door Opening in Collision. If IV05-IV09 # 2	2, Then code Ø	<ul><li>(6) Glazing disintegra</li><li>(7) Glazing removed</li><li>(9) Unknown if dama</li></ul>	ted from impact forces prior to accident
10. LF <u>/</u> 11. RF <u>1</u> 12. LR <u>0</u> 13. R	RR <u> </u>	Glazing Damage from	Occupant Contact
(0) No door/gate/hatch or door not open	ed	39. WS 40. LF	41. RF / 42. LR <u>0</u> 43. RR <u>0</u>
Door, Tailgate or Hatch Came Open Durin (1) Door operational (no damage) (2) Latch/striker failure due to damage (3) Hinge failure due to damage (4) Door structure failure due to damage (5) Door support (i.e., pillar, sill, roof side etc.) failure due to damage (6) Latch/striker and hinge failure due to	e rail,	<ul><li>(3) Glazing in place a</li><li>(4) Glazing in place a</li></ul>	

(9) Unknown

(8) Other failure (specify):



LOCATION OF INTRUSION	INTRUDED COMPONENT	(All Mea COMPARISON VALUE —	surements Are In Centi INTRUDED VALUE	meters) INTRUSION =	DOMINANT CRUSH DIRECTION
_		_		=	
		_		=	
		_		=	
		_		-	
		_		=	
		_		=	
		_		=	
		_	·	=	
		_		=	
		_		=	
		_		=	
		· –		=	
		_		=	
		_		=	
		_		=	

## OCCUPANT AREA INTRUSION

Note: If no intrusions, leave variables IV47-IV86 blank

Note: If no intrusions, leave variables IV47-IV86 blank.				
	Location of Intrusion	Intruding Component	Magnitude of Intrusion	Dominant Crush Direction
1st	47	Jotus 48	can _ 49	50
2nd	51	52	_ 53	54
3rd	55	56	_ 57.	58
4th	59	60	61	62
5th	63	64/	65	66
6th	67	68	_ 69	70
7th	71	72	_ 73	74
8th	75/	76	_ 77	78
9th	79	80	_ 81	82
10th	83	84	_ 85	86

### LOCATION OF INTRUSION

(31) Left

(32) Middle

(33) Right

Front Seat	Fourth Seat
(11) Left	(41) Left
(12) Middle	(42) Middle
(13) Right	(43) Right
Second Seat	(97) Catastrophic
(21) Left	(98) Other enclosed
(22) Middle (23) Right	area (specify)
,g	(99) Unknown
Third Seat	(33) OHKHOWN

### INTRUDING COMPONENT

### Interior Components

- (01) Steering assembly
- (O2) Instrument panel left
- (03) Instrument panel center
- (04) Instrument panel right
- (05) Toe pan (06) A (A1/A2)-pillar (07) B-pillar
- (08) C-pillar
- (09) D-pillar
- (10) Side panel forward of the A1/A2-pillar
- (11) Door panel (side)
- (12) Side panel rear of the B-pillar
- (13) Roof (or convertible top)
- (14) Roof side rail
- (15) Windshield
- (16) Windshield header
- (17) Window frame
- (18) Floor pan (includes sill)
- (19) Backlight header
- (20) Front seat back
- (21) Second seat back
- (22) Third seat back
- (23) Fourth seat back
- (24) Fifth seat back
- (25) Seat cushion
- (26) Back door/panel (e.g., tailgate)
- (27) Other interior component (specify):

### Exterior Components

- (30) Hood
- (31) Outside surface of this vehicle (specify):
- (32) Other exterior object in the environment (specify):
- (33) Unknown exterior object
- (97) Catastrophic
- (98) Intrusion of unlisted component(s) (specify):
- (99) Unknown

## MAGNITUDE OF INTRUSION

- (1) ≥ 3 centimeters but < 8 centimeters
- (2) ≥ 8 centimeters but < 15 centimeters
- (3) ≥ 15 centimeters but < 30 centimeters
- (4) ≥ 30 centimeters but < 46 centimeters
- (5) ≥ 46 centimeters but < 61 centimeters
- (6) ≥ 61 centimeters
- (7) Catastrophic
- (9) Unknown

## DOMINANT CRUSH DIRECTION

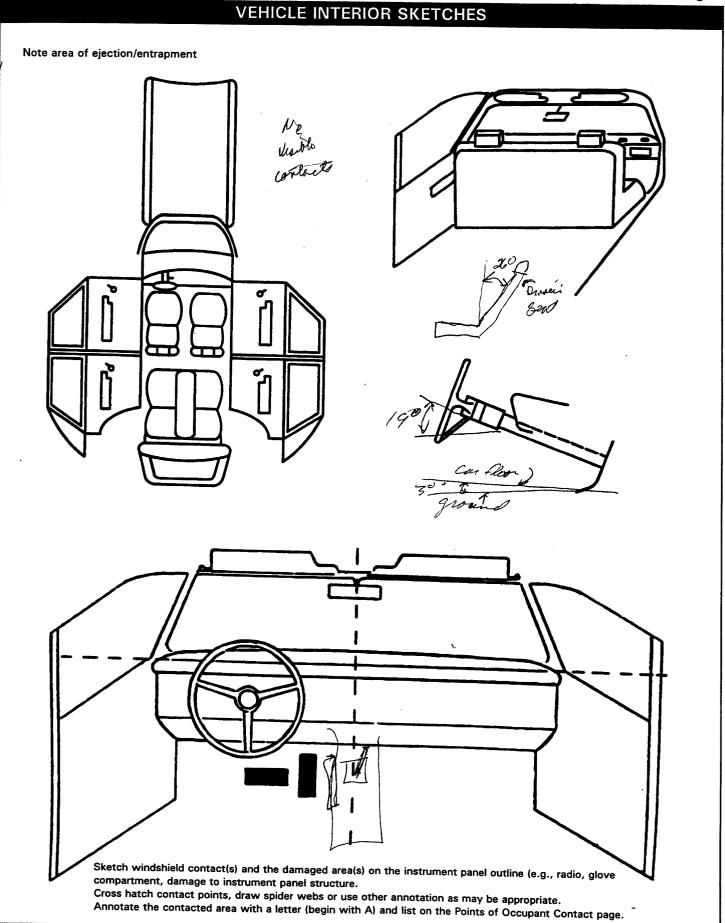
- (1) Vertical
- (2) Longitudinal
- (3) Lateral
- (7) Catastrophic
- (9) Unknown

(All Measurements Are in Centimeters)					
COMPARISON VALUE	_	DAMAGE VALUE	=	DEFORMATION	
alverage to the	_		=		
			=		
	_		=		
	_		=		
•	·				
	•				
·					
				•	
				•	
		-			

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Page 3

STEERING COLUMN	INSTRUMENT PANEL
87. Steering Column Type (1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify): (9) Unknown	92. Odometer Reading
88. Tilt Steering Column Adjustment (0) No tilt steering column (1) Full up (2) Between full up and center (3) Center (4) Between center and full down (5) Full down (9) Unknown	93. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown  94. Type of Knee Bolster Covering (0) No knee bolster
89. Telescoping Steering Column Adjustment (0) No telescoping steering column (1) Full back (2) Between full back and midpoint (3) Midpoint (4) Between midpoint and full forward (5) Full forward (9) Unknown	(1) Padded (2) Rigid plastic (8) Other (specify): (9) Unknown  95. Knee Bolsters Deformed from Occupant Contact? (0) No knee bolster (1) No deformation (2) Yes - deformation (9) Unknown
90. Steering Rim/Spoke Deformation  Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters (15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown	96. Did Glove Compartment Door Open During Collision(s)? (0) No glove compartment door (1) No - door did not open (2) Yes - door opened (9) Unknown
91. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation  Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D  Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown	97. Adaptive (Assistive) Driving Equipment (0) No adaptive driving equipment (1) Adaptive driving equipment installed (Check all that apply.) [ ] Hand controls for braking/acceleration [ ] Steering control devices (attached to OEM steering wheel [ ] Steering knob attached to steering wheel [ ] Low effort power steering (unit or device) [ ] Replacement steering wheel (i.e., reduced diameter) [ ] Joy-stick steering controls [ ] Wheelchair tie-downs [ ] Modification to seat belts (specify):  [ ] Additional or relocated switches (specify):  [ ] Raised roof [ ] Wall-mounted head rest (used behind wheelchair) [ ] Other adaptive device (specify):



	POINTS	OF OC	CUPA	NT CONTACT			
nent No	upant ). If	Body Region If					Confidence Level of Contact
Sted Kill	34411	KIIOWII		Supporting Physical	Eviden	се	Point
						-	
•							
							·
(051  oke nation (052 ) (053 elector (054 t (055 B (056 , (057 er) (058 and (059 el and and (060 or ne or RIGH front (101 r, or, or er (102 el and (104 r, (105) rror (106) cror (107) r): (108) crify):	SIDE  Left side interest excluding har armrests  Left A (A1/A Left B-pillar  Other left side win Left side win Left side win including one following: fra sill, A (A1/A2 or toof side armrests  Right side interests  Right A (A1/A2 other right pillar  Other right pillar  Right side win including har armrests  Right A (A1/A2 other right pillar  Right side win Right side win Right side win Right side win Right side win ricluding one following: fra sill, A (A1/A2 or roof side zor roof side zor of side zo other right side win Cother right side win Cother right side win Including one following: fra sill, A (A1/A2 or roof side zor of side zor of side zor of side zor of side zor other right side win Cother right side win Cother right side win Including one following: fra sill, A (A1/A2 or roof side zor of side zor of side zor of side zor other right side win Including one following: fra sill, A (A1/A2 or roof side zor of side zor of side zor of side zor of side zor other right side win Including one following: fra sill, A (A1/A2 or roof side zor of er right side win Including one following: fra sill, A (A1/A2 or roof side zor of side zor other right side win Including one following: fra sill, A (A1/A2 tother right side win Including one following: fra sill zor of side zor other right side win Including one following: fra sill zor of zor other zor of side zor other zor of zor other zor	erior surface, rdware or dware or	INTEL (151) (152) (153) (154) (155) (160) (161) (162) (163)  AIR E (170) (175) (180) (195) (190) (195)  ROOF (201) (202) (203) (204) (205) FLOO (251) (252)	RIOR Seat, back support Belt restraint webbing/buckle Belt restraint B-pillar or door frame attachment point Other restraint system component (specify):  Head restraint system Other occupants (specify):  Interior loose objects Child safety seat (specify):  Other interior object (specify):  AG Air bag-driver side Air bag compartment cover-driver side Air bag-passenger side Air bag-passenger side Other air bag (specify)  Other air bag compartment cover (specify)  Front header Rear header Rear header Roof left side rail Roof or convertible top R Floor (including toe pan) Floor or console mounted transmission lever, including console Parking brake handle	(301) (302) (303) ADAP EQUIF (401) (402) (403) (405) (406) (407) (408) (409) (411) (412)	Backlight storage door, etc. Other rear objective (ASSISTIV MENT Hand controls for braking/accelers Steering control (attached to OE wheel) Steering knob a steering wheel Replacement st (i.e., reduced di Joy stick steering Wheelchair tie-composition to (specify): Additional or reswitches, (specify): Raised roof Wall mounted h (used behind who ther adaptive (specify):  DENCE LEVEL O Certain Probable	ge rack, ct (specify):  E) DRIVING or ation I devices iM steering ttached to eering wheel ameter) ng controls downs seat belts, located ify): ead rest neel chair) device
	LEFT (051 ooke nation (052 of 105) elector (054 of 105) elector (058 and (059) el and (060) oor ne or front (101) ar, or, or, or er (102) front (104) or (105) elector (105) ooke (105) elector (105) elector (105) elector (105) elector (105) elector (105) elector (105) elector (106) oor (106) oor (106) oor (106) oor (107) elector (106) elector (106) elector (106) elector (107) elector (106) elector (107) elector (106) elector (108) elector (109) el	CODE:  LEFT SIDE (051) Left side interests (052) Left side win armrests (053) Left A (A1/A elector at (054) Left side win including one following: fra sill, A (A1/A2 or roof side rate or (103) Right side win armrests (105) Right side win armrests (106) Right side win armrests (107) Right side win armrests (108) Left side win armrest sill, A (A1/A2 or roof side rate or (103) Right side win armrests (106) Right side win armrests (107) Right side win armrests (108) Right A (A1/A2 or roof side rate or (103) Right side win armrests (106) Right side win armrests (107) Right side win armrests (108) Right side win armrests (109) Right side win armrest sill, A (A1/A2 or of of side rate or (103) Right side win armrest sill, A (A1/A2 or of side rate or (103) Right side win armrest sill, A (A1/A2 or of side rate or (106) Right side win armrest sill, A (A1/A2 or of side rate or (108) Right side win armrest sill, A (A1/A2 or of side rate or (108) Right side win armrest sill, A (A1/A2 or of side rate or (108) Right side win armrest sill, A (A1/A2 or of side rate or (108) Right side win armrest sill, A (A1/A2 or of side rate or (108) Right side win armrest sill, A (A1/A2 or sill,	CODES FOR INTE  LEFT SIDE (051) Left side interior surface, excluding hardware or armrests (052) Left side hardware or armrest (053) Left A (A1/A2)-pillar (054) Left side window sill and (055) Left side window sill and (059) Left side window sill and (050) Left side window sill and (050) Left side window sill and (051) Left side window sill and (059) Left side window sill and (059) Left side window sill and (050) Cher left pillar (specify): (050) Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail. (060) Other left side object (specify): (102) Right side interior surface, excluding hardware or armrest (102) Right side interior surface, excluding hardware or armrest (102) Right side hardware or armrest (103) Right side window glass (104) Right side window glass (105) Right side window sill (106) Right side window sill (108) Right side window sill (109) Right side window sill	CODES FOR INTERIOR (  LEFT SIDE (051) Left side interior surface, excluding hardware or armest (052) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, or roof side rail. (059) Left side window glass including hardware or armest (051) Left side window sill, A (A1/A2)-pillar, or roof side rail. (060) Other left side object (150) Silph A (A1/A2)-pillar, or roof side rail. (060) Other left side object (170) (175) Right side window glass including one or more or armest (103) Right A (A1/A2)-pillar (104) Right B-pillar (105) Cher right pillar (106) Cher r	CODES FOR INTERIOR COMPONENTS  CODES FOR INTERIOR COMPONENTS  LEFT SIDE  (051) Left side interior surface, excluding hardware or armests (052) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, Core or armests including hardware or armests including one or more of the following: frame, window sill, A (A1/A2)-pillar, Core or armests including hardware or armests including one or more of the following: frame, window sill, A (A1/A2)-pillar, Pillar, or roof side rail.  (105) Other left side object (specify): (105) Other inter side object (specify): (105) Othe	CODES FOR INTERIOR COMPONENTS  REAR  CODES FOR INTERIOR COMPONENTS  Supporting Physical Evident  Suppor	CODES FOR INTERIOR COMPONENTS  Known  CODES FOR INTERIOR COMPONENTS  CODES FOR INTERIOR COMPONENTS  LEFT SIDE (1051) Left side interior surface, control side ratio (1052) Left side hardware or armest (1053) Left at side window frame (1054) Left side hardware or armest (1054) Left side hardware or armest (1054) Left side hardware or armest (1055) Left side hardware or armest (1054) Left side hardware or armest (1054) Left side hardware or armest (1054) Left side window glass of the following: frame, window glass or (1054) Left side window glass (1056) Core (1056) Left side window glass (1056) Left si

			•			
		MA	ANUAL RESTR	PAINTS		
NOTES	: Encode the applicable data for Restraint systems should be as	r each sea	at position in the ve	hicle The attrib	oute for the vided on the O	variable may be found below ccupant Assessment Form.
	If a child safety seat is present	, encode	the data on the bac	k of this page 1	1.	, and a second of the
	If the vehicle has automatic re					•
			Left	Cent		Right
	A-Availability		3	COIR	<del></del>	†
F	B-Evidence of usage	†	3		<del>/</del>	3
Ī	C-Used in this crash?	<del> </del>	NO	/	,	
R S	D-Proper Use		UA	<del>                                     </del>		No
Ť	E-Failure Modes	+	NA-	<del>                                     </del>		NA
	F-Anchorage Adjustment		None	<del></del>	-	NA
	A-Availability	<del>                                     </del>	4			None
c	B-Evidence of usage	<del>                                     </del>	NO		<del>-/</del>	4/
SECOZO	C-Used in this crash?		Vo		/	NO
ç	D-Proper Use		NA			NO
Ň	E-Failure Modes	<del></del>	) A			NA
D	F-Anchorage Adjustment			/		NA
	A-Availability	<del>                                     </del>	I one	/		Non
•	B-Evidence of usage	-	<del>/</del>			
O T	C-Used in this crash?	<del> </del>				
Н	D-Proper Use	<del>                                     </del>		<b></b>		
E	E-Failure Modes	<del> </del>	/			
R	F-Anchorage Adjustment					/
	1 -Anchorage Adjustment	<u> </u>	···			<u> </u>
	ual (Active) Belt System Availability	D-Proper	Use of Manual (Active)	Beits F-	Shoulder Belt	Upper Anchorage Adjustment
	None available Belt removed/destroyed	(O) (1)	None used or not ava	ilable	(0) No si	houlder belt
(2)	Shoulder belt	(2)	Belt used properly Belt used properly wi	th child safety	(1) No u	pper anchorage adjustment for lder belt
	Lap belt Lap and shoulder belt		seat			
	Belt available - type unknown	Belt L	Ised Improperly		Adju.	stable shoulder Belt Upper oorage
		(3)	Shoulder belt worn u	nder arm		ll up position
(6)	<i>ral Belt Partially Destroyed</i> Shoulder belt (lap belt	(4)	Shoulder belt worn be seat	ehind back or	(3) In mi	d position
	destroyed/removed)	(5)	Belt worn around mo	re than one		ll down position ion unknown
	Lap belt (shoulder belt destroyed/removed)	<i>(6</i> )	person		(9) Unkr	own if position has adjustable
	Other belt (specify):	(6) (7)	Lap belt worn on abd Lap belt or lap and sh	lomen Noulder helt	uppe	r anchorage adjustment
(0)	Unknown		used improperly with	child safety		
(3)	Olikhown	(8)	seat (specify): Other improper use o	f manual hale		
	nual (Active) Belt System Use	(0)	system (specify):	i manual belt		
(00)	None used, not available, or belt removed/destroyed	(9)	Unknown			
(01)	Inoperable (specify):	(3)	Olikilowii			
(02)	Shoulder belt	E M	/A ash D. tr. T. tr.			
(03)	Lap belt	E-Manual Accident	(Active) Belt Failure M	odes During		
(04)	Lap and shoulder belt	(O)	No manual belt used	or not available		
(05) (08)	Belt used - type unknown Other belt used (specify):	(1) (2)	No manual belt failure	e(s)		
•		121	Torn webbing (stretc not included)	_		
(12)	Shoulder belt used with child safety seat	(3)	Broken buckle or late	hplate		
(13)	Lap belt used with child safety seat	(4) (5)	Upper anchorage sep Other anchorage sepa	arated arated		

child safety seat
(15) Belt used with child safety seat -

(18) Other belt used with child safety

type unknown

(6)

(7)

(8)

(9)

Broken retractor

Unknown

Combination of above (specify):

Other manual belt failure (specify):

### **AUTOMATIC RESTRAINTS**

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		AIII DAGS		
		Frontal Air BagsLeft Front	Frontal Air Bags-Right Front	OtherAir Bag
F	Availability/Function	0	6	6
R	Deployment			
o T	Failure			

#### Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

### Air Bag System Deployment

#### (This Occupant Position)

- (0) Not equipped/not available
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

### Are There Indications of Air Bag System Failure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

### **AUTOMATIC BELTS**

		Left	Right
	A-Availability/Function		
F	B-Use		7)
Ř	C-Type	2	2
5 T	D-Proper Use	1	0
	E-Failure Modes	1 - Singe Crash	0

#### A-Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

#### Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

### **B-Automatic (Passive) Belt System Use**

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

### C-Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system (9) Unknown

- D-Proper Use of Automatic (Passive) Belt System
  - (0) Not equipped/not available/not used
  - (1) Automatic belt used properly
  - (2) Automatic belt used properly with child safety seat

### Automatic Belt Used Improperly

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperly with child safety seat (specify):

- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

# Assi not fluvetions E-Automatic (Passive) Belt Failure Modes During Accident

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

### FIRST SEAT FRONTAL AIR BAGS

NOTES: Encode the applicable data *for the driver and first seat passenger* in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger /
A-Type of air bag?	. [	
B-Flaps open at tear points?	/	<u> </u>
C-Flaps damaged?		<del>                                     </del>
D-Air bag damaged?		<del></del>
E-Source of air bag damage		/
F-Air bag tethered?	/	/
G-Air bag have vent ports?		/
H-Other occupant contact air bag?		/
I-Occupant wearing eyewear?		

#### A-Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

# B-Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

# C-Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

#### D-Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

#### Yes - Air Bag Damage

- (02) Ruptured .
- (03) Cut
- (04) Torn
- (05) Holed
- (06) Burned
- (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

#### E-Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

### F-Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps):
- (3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

### G-Did The Air Bag Have Vent Ports?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

# H-Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

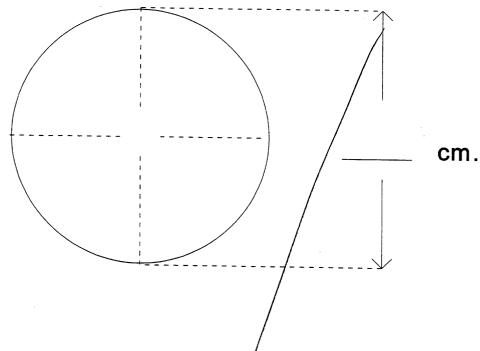
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

### I-Was This Occupant Wearing Eye-wear?

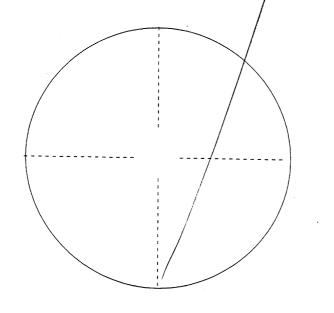
- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

# DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)



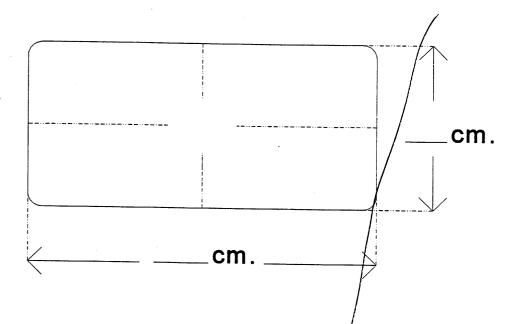
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)



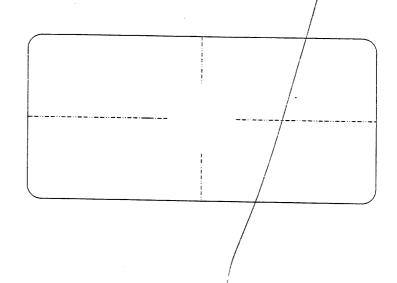
DRIVER AIR BAG S	KETCHES (Cont'd)
3. DRIVER AIR BAG MODULE COVER FLAP SIZE (SINGLE)  width (W <sub>U</sub> ) width (W <sub>L</sub> ) height (H)	4. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE) a. Upper Flap b. Lower Flap width (W <sub>U</sub> ) width (W <sub>L</sub> ) height (H <sub>U</sub> ) height (H <sub>L</sub> )
W <sub>U</sub> — H	W. ————————————————————————————————————
5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE	6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS
7. SKETCH LOCATION OF CIRCULAR AIR BAG VENT PORTS  11 12 1 10 2 9 3 8 4 7 6 5	

# PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Front)



2. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back)



PASSENGER AIR BA	G SKETCHES (Cont'd)
3. PASSENGER AIR BAG MODULE COVER FLAP SIZE (SINGLE)	4. PASSENGER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)
width (W)	a. Upper Flap b. Lower Flap
height (H)	width (W <sub>U</sub> ) width (W <sub>L</sub> )
	height (H <sub>U</sub> ) height (H <sub>L</sub> )
T	W
H	
<u></u>	<u> </u>
<b>₩</b> ———	H.
	₩. ——
	· ·
5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE	6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS
·	
7. SKETCH LOCATION OF RECTANGULAR AIR BAG VENT PORTS	
10 11 12 1 2	
9 3	
9 7 6 5 4	
8 7 6 5 4	

# "OTHER" AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Front)	
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON "OTHER" AIR BAG (Back)	
	·

	"OTHER" AIR BAG	G SKETCHES (Cont'd	)	
3. SKETCH AIR BAG MODULE FI	_AP AND SIZE OR OPENI	NG FOR AIRBAG		
				•
		-		
				•
				•
	٠			
				•
4. SKETCH AIR BAG VENT PORT	re			
THE ORDINAL PAG VENT FOR	13			
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		•		

# HEAD RESTRAINTS/SEAT EVALUATION

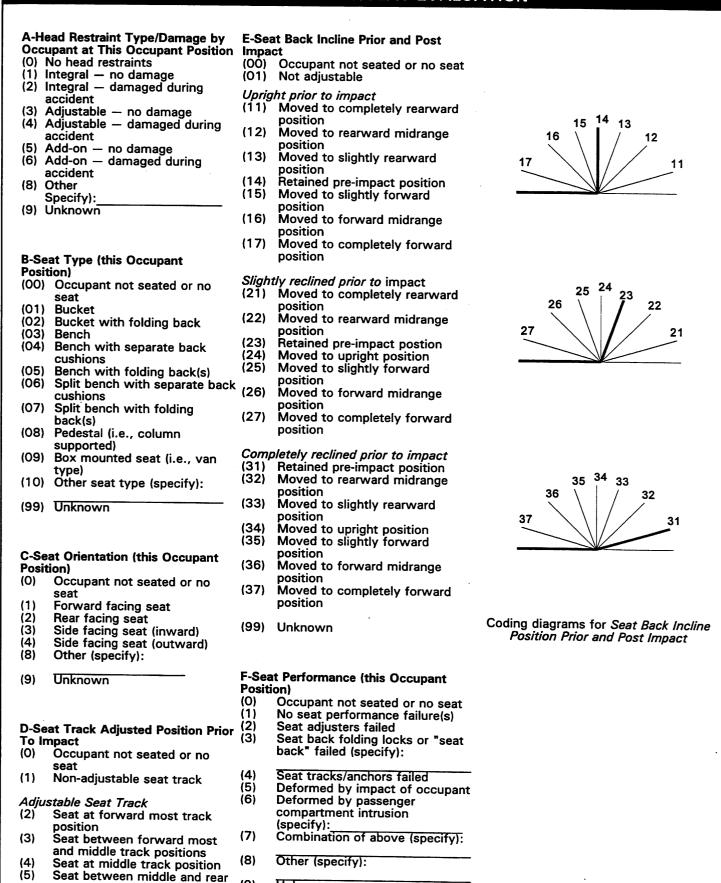
NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
	A-Head Restraint Type/Damage	Internal	/	,
F	B-Seat Type	Elin Bucket wo Redus		Same
Ì	C-Seat Orientation	Formand		00000
R S	D-Seat Track Position	* Centin	/	& center / Mach
Т	E-Seat Back Incline Pre/Post Impact	Centr		Centr
	F-Seat Performance	None		F center/bode
	A-Head Restraint Type/Damage	None		None
c	B-Seat Type	Buchet bench wel Ser	the folding balls	
S E C	C-Seat Orientation	PE F		
0	D-Seat Track Position	Eni		
N D	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance	None		
	A-Head Restraint Type/Damage			
т	B-Seat Type		/	
Ĥ	C-Seat Orientation			·
R	D-Seat Track Position			
D	E-Seat Back Incline Pre/Post Impact			/
	F-Seat Performance			
	A-Head Restraint Type/Damage			
ō	B-Seat Type			
H	C-Seat Orientation			
E R	D-Seat Track Position		/	/
	E-Seat Back Incline Pre/Post Impact			
	F-Seat Performance			

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE

\* Sent adjusted 3 /9" forward of full brack + 4" reasons of full brack + 4" reasons of full front

### HEAD RESTRAINTS/SEAT EVALUATION



(9)

most track positions

position

Unknown

Seat at rear most track

(6)

(9)

Unknown

				BEST AVAILABLE
	CHILD SAF	ETY SEAT F	IEL	ELD ASSESSMENT
Wh the	en a child safety seat is present enter t	he occupant's nu	ımh	nber in the first row and complete the column below aplete a column for each child safety seat present.
Ос	cupant Number			
1.	Type of Child Safety Seat			£ .
2.	Child Safety Seat Orientation			
3.	Child Safety Seat Harness Usage			
4.	Child Safety Seat Shield Usage			
5.	Child Safety Seat Tether Usage			
6.	Child Safety Seat Make/Model	Specif	у В	Below for Each Child Safety Seat
2.	(0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specific seat) (8) Unknown child safety seat type (9) Unknown if child safety seat use Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (o9) Unknown orientation Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify):	d	4.	<ol> <li>Child Safety Seat Harness Usage</li> <li>Child Safety Seat Tether Usage         Note: Options Below Are Used for Variables 3-5.         (00) No child safety seat     </li> <li>Not Designed with Harness/Shield/Tether         (01) After market harness/shield/tether added, not used         (02) After market harness/shield/tether used         (03) Child safety seat used, but no after market harness/shield/tether added         (09) Unknown if harness/shield/tether added or used     </li> <li>Designed With Harness/Shield/Tether         (11) Harness/shield/tether used         (12) Harness/shield/tether used         Unknown if harness/shield/tether used         Unknown If Designed With Harness/Shield/Tether         (21) Harness/shield/tether used         (22) Harness/shield/tether used         (29) Unknown if harness/shield/tether used     </li> </ol>
	(19) Unknown orientation	_		(99) Unknown if child safety seat used
	Unknown Design or Orientation For TAge/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify):	'his It	6.	6. Child Safety Seat Make/Model (Specify make/model and occupant number)

(29) Unknown orientation

(99) Unknown if child safety seat used

	EJECTION	ENTRAPI	MENT DA	TA		F	age
Complete the following if the resea in the vehicle. Code the appropria	rcher has any te data on the	indication th Occupant A	nat an occup Assessment I	ant was eit Form.	her ejected	from or ent	rappe
EJECTION No [ /] Yes [ Describe indications of ejection and	] d body parts ir	nvolved in pa	artial ejectio	n(s):			
Occupant Number							]
Ejection							
(Note on Vehicle Interior Sketch) Ejection Area							1
Ejection Medium							
Medium Status							
Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown	picku (9) Unkn		back of cify):	(8) O: (9) Ui	tegral struc ther mediun nknown	ture n (specify): mediately P	
(1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear	(2) Nonfi (3) Fixed	hatch/tailga xed roof str	ucture	to Impa (1) O <sub>I</sub> (2) CI (3) In	ct) cen		
ENTRAPMENT No [ / ] Yes  Describe entrapment mechanism:	5[]						
Component(s):							- - 

(Note on vehicle interior sketch)

# U.S. Department of Transportation National Highway Traffic Safety Administration

# **OCCUPANT ASSESSMENT FORM**

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum 96-13	10. Occupant's Seat Position
· ·	Front Seat
3. Vehicle Number	(11) Left side (12) Middle
4. Occupant Number	(13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify):
o on the total of	(15) On or in the lap of another occupant
5. Occupant's Age	Second Seat
Code actual age at time of accident.  (00) Less than one year old (specify by month):	(21) Left side
	(22) Middle (23) Right side
(97) 97 years and older	(24) Other (specify):
(99) Unknown	(25) On or in the lap of another occupant
	Third Seat
	(31) Left side
6. Occupant's Sex (1) Male	(32) Middle
(2) Female-not reported pregnant	(33) Right side (34) Other (specify):
(3) Female-pregnant-1st trimester(1st-3rd month)	(35) On or in the lap of another occupant
(4) Female-pregnant-2nd trimester(4th-6th month)	•
<ul><li>(5) Female-pregnant-3rd trimester(7th-9th month)</li><li>(6) Female-pregnant-term unknown</li></ul>	Fourth Seat
(9) Unknown	(41) Left side (42) Middle
	(43) Right side
	(44) Other (specify):
7. Occupant's Height 173	(45) On or in the lap of another occupant
Code actual height to the nearest	(97) In or on unenclosed area
centimeter. (999) Unknown	(98) Other seat (specify):
(600) Chikhowh	(99) Unknown
inches X 2.54 = centimeters	
8. Occupant's Weight	11. Occupant's Posture
Code actual weight to the nearest kilogram.	(0) Normal posture
(999) Unknown	Abnormal posture
	<ul><li>(1) Kneeling or standing on seat</li><li>(2) Lying on or across seat</li></ul>
pounds X .4536 = kilograms	(3) Kneeling, standing or sitting in front of seat
9. Occupant's Role	(4) Sitting sideways or turned to talk with another occupant or to look out a rear
(1) Driver	Window
(2) Passenger (9) Unknown	(5) Sitting on a console (6) Lying back in a reclined seat position
(3) Olikilowii	(/) Bracing with feet or hands on a surface in
	front of seat (8) Other abnormal posture (specify):
,	· · · · · · · · · · · · · · · · · · ·
	(9) Unknown
	·
HS Form 433A (1/96) This report is authorized by P.L. 89-563. Ti	1 Cardina 100 120

	EJECTION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	_0_	15. Medium Status (Immediately Prior To Impact)  (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, (specify): (9) Unknown	_ <u>()</u> etc.)	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify):
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):  (5) Integral structure (8) Other medium (specify):  (9) Unknown	6	<ul> <li>(1) Removed from vehicle while unconscious or not oriented to time or place</li> <li>(2) Removed from vehicle due to perceived serious injuries</li> <li>(3) Exited vehicle with some assistance</li> <li>(4) Exited vehicle under own power</li> <li>(5) Occupant fully ejected</li> <li>(8) Removed from vehicle for other reasons (specify):</li> <li>(9) Unknown</li> </ul>

		BELT	SYSTE	M FU	NCTION	
18	(0) (1) (2) (3) (4) (5)	Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available—type unknown	3	A (3)	Manual Shoulder Belt Upper Anchorage djustment  No manual shoulder belt  No upper anchorage adjustment for manual shoulder belt  djustable shoulder Belt Upper Anchorage  In full up position  In mid position	0
	(I)	Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify): Unknown		( (	<ul> <li>In full down position</li> <li>Position unknown</li> <li>Unknown if position has adjustable upper anchorage adjustment</li> </ul>	
19.	Mai (00 (01	nual (Active) Belt System Use ) None used, not available, or belt removed/destroyed ) Inoperative (specify):	00	(C) (1) (3)	automatic (Passive) Belt System Availability/ unction  Not equipped/not available  2 point automatic belts  3 point automatic belts  Automatic belts - type unknown	+
	(03 (04 (05	<ul> <li>Shoulder belt</li> <li>Lap belt</li> <li>Lap and shoulder belt</li> <li>Belt used—type unknown</li> <li>Other belt used (specify):</li> </ul>		(4 (9	lon-functional	1
	(12) (13) (14)	Shoulder belt used with child safety seat Lap belt used with child safety seat Lap and shoulder belt used with child safety seat Selt used with child safety seat—type upkr	nown	(1 (2	Not equipped/not available/destroyed or rendered inoperative  Automatic belt in use  Automatic belt not in use (manually disconnected, motorized track inoperative) (specify):  Automatic belt use unknown	
20	(99)	Other belt used with child safety seat (specify): Unknown if belt used  Der Use of Manual (Active) Belts	х	25. A	) Unknown utomatic (Passive) Belt System Type ) Not equipped/not available	2
-0.	(O) (1)	None used or not available Belt used properly Belt used properly with child safety seat		(2	) Non-motorized system ) Motorized system ) Unknown oper Use of Automatic (Passive)	,
	(3) (4) (5) (6)	Used Improperly Shoulder belt worn under arm Shoulder belt worn behind back or seat Belt worn around more than one person Lap belt worn on abdomen		(0 (1 (2	<ul> <li>Not equipped/not available/not used</li> <li>Automatic belt used properly</li> <li>Automatic belt used properly with child safety seat</li> </ul>	
	(7)	Lap belt or lap and shoulder belt used improperly with child safety seat (specify):  Other improper use of manual belt system (specify):		(3 (4 (5	Atomatic Belt Used Improperly  Automatic shoulder belt worn under arm  Automatic shoulder belt worn behind back  Automatic belt worn around more than one person	
•		Unknown			) Lap portion of automatic belt worn on abdomen ) Automatic lap and shoulder belt or	
	Durii (0) (1) (2)	ual (Active) Belt Failure Modes ng Accident No manual belt used or not available No manual belt failure(s) Torn webbing (stretched webbing not included) Broken buckle or latchplate	<b>1</b>		automatic shoulder belt used improperly with child safety seat (specify):  Other improper use of automatic belt system (specify): Unknown	
	(4) (5)	Upper anchorage separated Other anchorage separated (specify): Broken retractor		(0)	rtomatic (Passive) Belt Failure Modes Iring Accident Not equipped/not available/not in use No automatic belt failure(s)	4
	(7)	Combination of above (specify): Other manual belt failure (specify):		(3) (4)	Torn webbing (stretched webbing not included)  Broken buckle or latchplate  Upper anchorage separated	
	_	Unknown		(5) (6) (7)	Other anchorage separated (specify):  Broken retractor  Combination of above (specify):	٠
				(0)	Other automatic belt failure (specify): Unknown	

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown"  29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	<ul> <li>31. Frontal Air Bag System Deployment (This Occupant Position)</li> <li>(0) Not equipped/not available</li> <li>(1) Deployed during accident (as a result of impact)</li> <li>(2) Deployed inadvertently just prior to accident</li> <li>(3) Deployed, details unknown</li> <li>(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(5) Unknown if deployed</li> <li>(7) Nondeployed</li> <li>(9) Unknown</li> </ul>
Check the Primary Source Used In Determining Belt Use.  [ ] Vehicle inspection [ ] Official injury data [ ] Driver/occupant interview [ ] Other (specify): [ ] Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag  Non-functional (2) Air bag disconnected (specify):  (3) Air bag not reinstalled (9) Unknown  Specify type of "other" air bag present:
	<ul> <li>33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position)</li> <li>(0) Not equipped with an "other" air bag</li> <li>(1) Deployed during accident (as a result of impact)</li> <li>(2) Deployed inadvertently just prior to accident</li> <li>(3) Deployed, details unknown</li> <li>(4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)</li> <li>(5) Unknown if deployed</li> <li>(7) Nondeployed</li> <li>(9) Unknown</li> </ul>
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify):  (9) Unknown

TINST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)?  (O) Not equipped/not available (1) No previous accidents  Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (_000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (_996) Deployment, unknown longitudinal Delta V (_997) Not deployed (_998) Unknown if deployed (_999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (O) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (O) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown  38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available	(9) Unknown  42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed (9) Unknown
Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged  Yes - Air Bag Damage (02) Ruptured (03) Cut
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify):  (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(04) Torn (05) Holed (06) Burned (07) Abraded (88) Other damage (specify):  (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify):  (03) Object carried by occupant, (specify):  (04) Adaptive/assistive controls, (specify):  (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify):  (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	49. Head Restraint Type/Damage by Occupant at This Occupant Position  (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):  (9) Unknown  50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s)
45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps):  (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown	(06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify):  (99) Unknown  51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat
46. Did The Air Bag Have Vent Ports?  (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports):  (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed (9) Unknown	(1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown  52. Seat Track Adjusted Position Prior To Impact
47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify):  (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown	<ul> <li>(0) Occupant not seated or no seat</li> <li>(1) Non-adjustable seat track</li> <li>Adjustable Seat Track</li> <li>(2) Seat at forward most track position</li> <li>(3) Seat between forward most and middle track positions</li> <li>(4) Seat at middle track position</li> <li>(5) Seat between middle and rear most track positions</li> <li>(6) Seat at rear most track position</li> <li>(9) Unknown</li> </ul>
18. Was This Occupant Wearing Eye-wear? (0) Not air bag equipped/air bag not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	

# HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
  - (00) Occupant not seated or no seat
  - (01) Not adjustable

# Upright prior to impact

- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

### Slightly reclined prior to impact

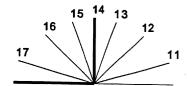
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

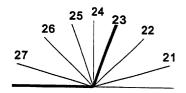
### Completely reclined prior to impact

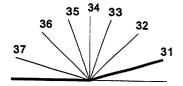
- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown

## 54. Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed (specify):
- (4) Seat track/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion, (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown







# CHILD SAFETY SEAT 55. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used 56. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 57. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

58. Child Safety Seat Harness Usage

59. Child Safety Seat Shield Usage

60. Child Safety Seat Tether Usage

Note: Options below applicable to

Variables OA58-OA60.
(00) No child safety seat

## Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

### Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

# Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

#### INJURY CONSEQUENCES 61. Injury Severity (Police Rating) 63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (O) O - No injury (1) Trauma center (1) C - Possible injury (2) Hospital (2) B - Nonincapacitating injury (3) Medical clinic (3) A - Incapacitating injury (4) Physician's office (4) K - Killed (5) Treatment later at medical facility (5) U - Injury, severity unknown (8) Other (specify): (6) Died prior to accident (9) Unknown (9) Unknown 62. Treatment - Mortality 64. Hospital Stay (0) No treatment (00) Not Hospitalized (1) Fatal Code the number of days (up through 60) (2) Fatal - ruled disease (specify): that the occupant stayed in hospital. (61) 61 days or more (99) Unknown Nonfatal (3) Hospitalization 65. Working Days Lost (4) Transported and released Code the number of days (5) Treatment at scene - nontransported (up through 60) that the occupant (6) Treatment later lost from work due to the accident (7) Treatment - other (specify): (00) No working days lost (61) 61 days or more (8) Transported to a medical facility-unknown if (62) Fatally injured treated (97) Not working prior to accident (9) Unknown (99) Unknown

### STOP WORK HERE

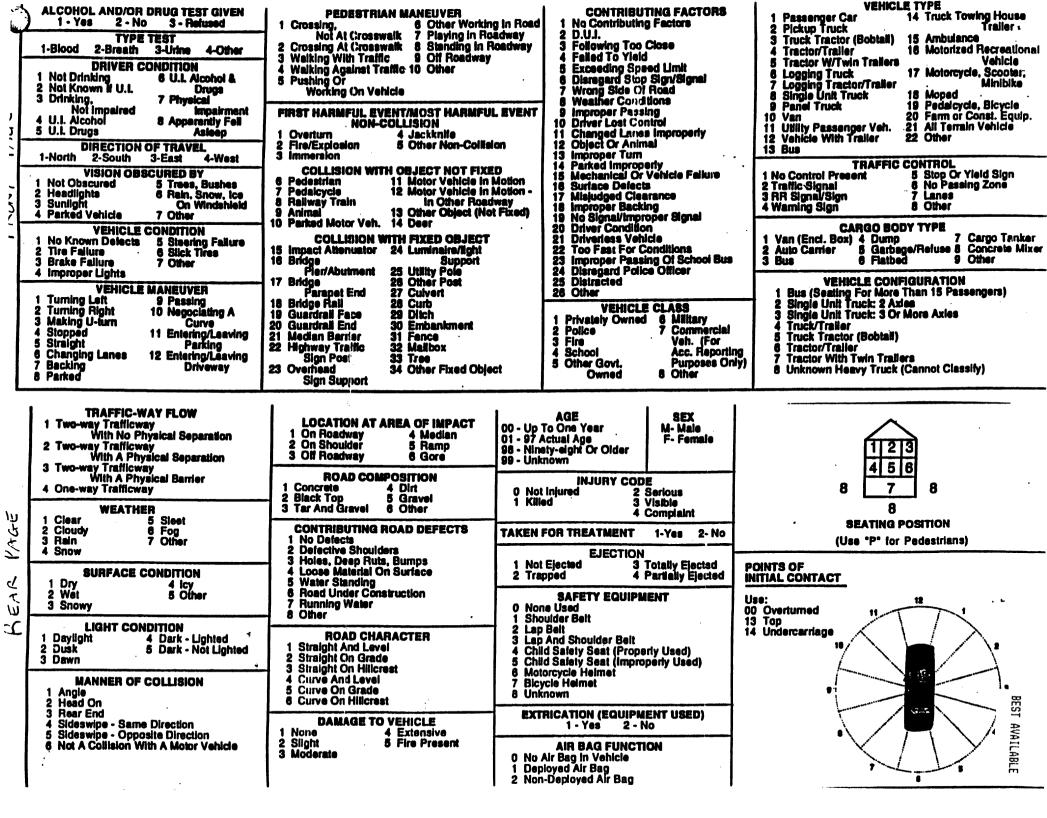
VARIABLES 66-74

TO BE CODED BY THE ZONE CENTER

# TO BE CODED BY THE ZONE CENTER

IN HURY CONSEQUENCES	
INJURY CONSEQUENCES	TRAUMA DATA
Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60)  (00) Not fatal  (96) Fatal - ruled disease  (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given
68. 2nd Medically Reported Cause of Death  69. 3rd Medically Reported Cause of Death	(specify units):(9) Unknown if blood given
Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	73. Arterial Blood Gases (ABG) – HCO <sub>3</sub> (O0) Not injured (O1) Injured, ABGs not measured or reported (O2-50) Code the actual value of the HCO <sub>3</sub> (96) ABGs reported, HCO <sub>3</sub> unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):	
(99) Unknown	BELT USE DETERMINATION
70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (O) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):

1						. •		,e							
H	Vehicle	#1 was tr	ave 19	east on	. Vehic	cle #	‡2 v	V.	tra	veli	ng w	est (	on (	1.	
H						icle #2 w. traveling west on						ie			
ŀ	Vehicle #2 attempted to make a left turn or path of oncoming Vehicle #1. Vehicle #1 swe														
ŀ	collision, striking Vehicle #2 in the left					ront	Wi	th 1	the	righ	t si	de o	f Veh	icle.	
ŀ															
ŀ	Area o	f impact oc	curred o	n the sout	n euge of	east	<u>по</u>	<u>uiu</u>	Tal	:+ C =	oct	in w	actho	10/1 1	ane
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ā	Accident Investigation Site?  Yes No	CITATIONS - VEHIC	CLE • 1 None	<b>a</b>		CITATIONS - VEHICLE #									
	Yes W No Site Number:		140116	<del>-</del>		74/	<u> </u>								
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	First Traffic- Harmful Way	Weather	Surface Cond.	Light Condition	Manner Of Collision 1	At Area		1	Ros Con	np. 2		ects fects . 1	- I Ch	aracter	1
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<b>GEORGIA DEPARTMENT OF PUBLIC SAFETY, A</b>	Point Of Initial Contact 10 12 VEI  Damage To Vehicles 3 3					VEU 2									
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Z	Damage Other Than Vehicle:		Ow	vner:		AGE	SEX	VEH NO.	PO8.	INJURY	FOR TREAT.	EJECT	SAFETY EQUIP.	EXTRIC.	AIR
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TIFY IN CASE OF EMERGENCY	REL PHONE	ADDRESS	S—CITY, STATE, ZIP					
			· · · · · · · · · · · · · · · · · · ·					
MERGENCY PHYSICIAN	PERSONAL PHYSICIAN	COMMENTS						
DMITTED/REFERRED TO	CHIEF COMPLAINT		AUTO ACCIDENT .					
MUHMENUR ENGLIRY OYES ONO								
EN	MERGENCY DEPARTME	INT CONSENT	FOR TREATMENT					

### AGREEMENT FOR EMERGENCY DEPARTMENT SERVICES

The examination and treatment which you receive on any emergency basis is not intended as a substitution or replacement for complete medical care. Please seek further care as indicated on the reverse side of this form.

ABOUT YOUR BILL. You will receive a bill from the hospital for provision of the health-care facility, including staff and equipment, and for any supplies or medicines utilized. You will also receive a bill from the emergency physician/specialist who provides your professional care. If you have an E.K.G., X-Ray, or complicated lab specimen (one that requires interpretation by a pathologist), then (a) the interpretation rendered on an emergency basis is a preliminary interpretation, (b) a final interpretation will be made as soon as possible by the appropriate specialist who will bill for his/her services separately, and (c) if there is a discrepancy or variance in these interpretation, you will be notified (it is your responsibility to provide the hospital with a correct address and telephone number where you can be reached for this purpose).

YOUR RESPONSIBILITY FOR PAYING FOR SERVICES Your insurance policy is a contract between you and your insurance company. The hospital cannot actually charge your insurance company for services rendered to you, but can only send them a copy of the charges. The hospital cannot guarantee that your insurance company will pay your claim. When you sign an authorization for an insurance company to pay benefits to the hospital, upon receipt of the payment credit will be given to your account. Your insurance company will notify you of the amount paid. When you sign the claim form and/or the consent below, you are authorizing the hospital to furnish information (including copies of medical records relative to this visit) to the insurance company listed on the registration sheet in the form of a bill.

- -CONSENT FOR MEDICAL TREATMENT Upon my registration, I do voluntarily consent to such hospital care encompassing diagnostic and therapeutic procedures and medical treatment, as may be ordered by my physician, his assistants or designees, as is necessary in his judgement. I realize the physicians furnishing services to the patient, including radiologists, anesthesologists, cardiologists, pathologists, and emergency physicians are independent contractors and are not employees or agents of the hospital. These contractors will bill independently for their services when rendered.
- -AUTHORIZATION TO RELEASE INFORMATION Upon my registration, I agree that my physician and hospital authorities may give out written or verbal information concerning my hospital records to any insurance carrier or agent or agent that is duly responsible to the hospital or patient, whether government or private agency.
- -AUTHORIZATION TO PAY INSURANCE BENEFITS Upon my registration, I hereby authorize payment directly to the hospital of all hospitals benefits otherwise payable to me for the period of hospitalization, but not to exceed the hospital's total charges. The hospital files insurance claims as a courtesy service and any disputes with any insurance company regarding terms of coverage will be handled by the insured. In the event I do not choose to assign payment of benefits to the hospital, I understand that my account will be handled as a private pay account.
- -FINANCIAL AGREEMENT The undersigned hereby agrees to pay all statements not covered by the insurance for the services rendered by this hospital upon discharge. Any balance not paid within thirty (30) days after the date of discharge will be considered in default unless financial arrangements have been made in writing with the Hospital's Business Office. The undersigned also agrees to be solely responsible for all collection fees, attorney's fees, and court costs necessary to collect payment on any portion of the delinquent balance.
- -AUTHORIZATION FOR COMMUNICABLE DISEASE TESTING I hereby authorize and consent to my blood being tested for communicable diseases, including but not limited to HIV (AIDS virus), if any—other person is exposed to my blood or bodily fluids as a result of providing or assisting with my care. (If the undersigner does not consent to such testing, initial here\_\_\_\_\_\_)

SIGNED PATIENT OR AUTHORIZED REPRESENTATIVE D	DATE 1	WITNESS	DATE /
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#### TRIAGE ASSESSMENT FORM

PRIORITY: URGENT

PATIENT: DOB SEX ED PHYS:

PRIV MD:

Date:

Presentation Time: 19:08

Triage Time: 19:08

Arrival Mode: ST-EMS

Weight: 019 lbs.

8.6 kgs -

LMP:

Last Tetanus: N/A

Chief Complaint: MVA--MINOR INJURY

Vital Signs Т. 0.0

3rief Assessment:

PT TO ER VIA EMS AFTER BEING IN MVA, IN WHICH PT WAS RESTRAINED IN CAR SEAT. PT HAS HEMATOMA TO HEAD AND L GAZE. PT AWAKE ALERT CRYING AND APPEARS TO RECOGNIZE FAMILY.

R. 36 BP. 000/000

PERRL.

Plan

P. 200

WR

LΑ

XR

Pre-Hospital Treatment: 10NE

Past Medical History: 35 WK PREMIE

Allergies: **JKA** 

/edicines: 10NE

Jurse Signature:

Triage Nurse:

Comments

#### TESTS ORDERED

14487	428	9367958	X C-SPINE COMPLETE
71020		9367957	X CHEST PA & LAT ROUTINE
35028		9367956	L CBC
30007		9367955	L CHEM-7 (MED 8***A)
32015			L URINALYSIS ROUTINE
L0915			ED CARDIAC MONITOR
)0075	480	9367952	ED DYNAMAP
08000	480		ED DITT CE OV

Jode Dep Order# Description

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# EMERGENCY ROOM ASSESSMENT RECORD

IDENTIFYING DATA	
NameHor	spital Number
Head Circumference	Time 184 S
Immunizations up to date? Yes \(\mathbb{\text{No}}\)	weight Height/Length
If not which	
	Social Services Contacted
Social History: Who does the patient live with?	
Who cares for the patient?	
Educational History: Is the patient able to read?	
Is the patient able to write?	Yes U No W
Highest grade completed	
Parents of children can read	and write? Yes No D
PAST HISTORY	
☐ Asthma/COPD ☐ Diabetes ☐ Smoker ☐ Hypertension ☐ Heart D	isease ☐ ETOH ☐ Liver Disease ☐ Musculoskeletal Disease ☐ Seizures
☐ Stroke ☐ Ulcers ☐ FHx ☐ Surge	ry (Type/Date)
	TUASTRUINTESTINAT
Awake but Confused  Oriented X 3  Cooperative  Mincooperative	Soft ☐ Flat ☐ Rigid ☐ Distended
Combative Agitated Restrained	☐ Non-Tender ☐ Tender (Area)
Responds To Verbal To Pain Unresponsive Company To Pain Decerebrate Decerebrate	Boyel Sounds Present Absent
Fupils Brisk Sluggish Fixed Pinpont Dilated	y C
Rt Lt	
Extramities	GENITOURINARY Not Applicable
Movement 6	Urine Colorless C Yellow Red Brown Cloudy
Sensation	□ Anuria □ Dysuria □ Hematuria □ Frequency □ Urgency Vaginal D/C □ No
Movement 0-None 1-Barely Breaks Gravity 2-Weak 3-Strong	□ Yes (Type)
Sensation NR-No Response DP-Deep Pain MP-Moderate Pain LT-Light Touch	MUSCULOSVELET
CARDIOVASCULAR  Skin Warm Cry Cool Hot Moist Disabasesia	
Color D. P	Wounds (Lacerations, Abrasions, Avulsions, Penetrations, Burns)
☐ Flushed ☐ Cyanotic ☐ Jaundiced	
Capillary Refill	Pain NO OBVIOUR INJUNY
Turgor Decreased	rain
Pulses R L	Deformity
Carotid Brachial 5 5	
Brachial 5 5	Edema (Swelling, Crepitus, Subcutaneous Emphysema)
Femoral	
Popliteal	Scara
Dorsalis Pedis	PRE-HOSPITAL CARE
S-Strong W-Weak D-Doppler A-Absent	O CDD
RESPIRATORY	☐ Intubated ☐ Not Inflated
Airway Clear	☐ Ambu-Assist ☐ Legs Inflated
Other	☐ Mask ☐ Nasai Cannula ☐ Nasai Cannula ☐ Route
Effort Unlabored    Labored    Mildly    Severely	102 lpm %
Retractions Nasal Flaring Stridor	☐ Backboard ☐ Splint
Cough None Productive Non-Productive	VALUABLES (Clothing/Madian
Lung Sounds R L Clear	VALUABLES (Clothing/Medications, etc.)  List  None
Wheezing	Disposition
Rales	
Rhonchi	NONS.
Decreased	NONS
EMG 001 9/95 Absent	RN Signature

NURSI	NG D	IAGNOSIS	S (Nu	mber in	n orde	er of priorit	y. Eacl	h patient	must have	at least one selected.	)		
Air	way Cl	earance, Ine	ffective	e		Communic	cation I	mpaired	I	nfection, Potential	Self C	Care Deficit	
Anx	kiety		•,			Coping, In	effectiv	ve	I	njury, Potential	Skin I	ntegrity Imp	airment
Bre	athing	Patterns, Inc	effectiv	/e .		Fluid Volu	me, Al	teration is	n F	Cnowledge Deficit			s, Alteration in
Cardiac Output, Decreased						Gas Excha	ınge, İr	npaired		Mobility Impaired			Alteration in
Cor	mfort,	Alteration in				Hyperther	-	-		Non-Compliance		·	
 Oth							•	ŕ		Other			
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#1				ratient	Goai	/Expected (	Juicom	ie by Disc	narge		Goal Eval	RN	Key = Met goal
#2								<del></del>					= Not met
#3												E =	= Evaluation
#4											-		in notes
TIME	TEMP	PULSE R		BLOOD RESSURE	PUPI L/I		CAP REFILL	GLASCOW	Time	Nurse	s Reassessment		Signature
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CNS	§	AWAKE	01	BTUNDE	D	COMATOSE	_			2 5 1 2	<del>\(\frac{1}{2}\)</del>		
SYSTO		> 90mmHg	0	0-50mmH		< 50mmHg				VERKI	·H-O	Brus	<del></del>
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SKELE	TAL	NONE		SIMPLE		MULTI FX's	_		_			2/-//	10
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Best Verbal	Oriente			5 Ra	spirato ite	25-35/mii	1	3			. 1	000	An ( /
Response	Inappr	opriate words		3		36/min or 1-9/min	greater	2		Jaroun, 1	rach of	poll	
	None	crenensiole sour	ids		spirato			0 1		Butin	La Ca	) 10.	*
Best Motor	Locau	zes pain		6   Ex	pansion	n Retractiv	e/None lg or grea	0 ter 4			my m	- 1890	
Response	Wilhar	raws (pain)		4 Bk	ood essure	70-89 mr 50-69 mr	n Hq	3		han (h)	sidl	Gla	. D.
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Total	None Apply	this score	3-	1 Ca	apillary efill	Normal Delayed		2	174	7 ~ 7 pm	u sha	7 —	1/4
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TIME CONTINUED NURSING RE-ASSESSMENT	NURSE'S SIGNATURE
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2000 pt resting quitty suchin Pacifier-1	1.0
EKG Showing sing Tach & Eclopy.	
2008 Transfer form Signed By Mod	
2015 Report Houtman Advanced Ent	
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DISPOSITION	
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Treated & Released Admitted Room # MD Re	port 10.
Transferred to Report called to:	
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At time of Transfer patient was StableUnstable	( Proje
D/C ConditionImprovedStableSeriousExpired	
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Discharged in company of:  2010  D/C Vitals T P 4 4 6 R 2 6 B/P 9 6 9  D/C Date Time 20 2 9 Nurse	had reglific
D/C Vitals T P746 R 10 B/P 10/9	CBC Chem)
D/C Date Time Nurse	let Cong
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	BEST AVAILABLE

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55 STAT PRINTING

PAGE: 1 of 1

, 19:13

8

Patient name:

M.R.N.:

Id no:

Location : EMERGENCY room: 0000

Order Id:

1996 Age: M5 Sex: M Date&Time Ordered :

Adm. date: 96

Surg. date: Att. physician: Req. physician:

#### HEMATOLOGY

TEST-NAME	RESULT	ABN.	NRML-RANGE	TRITTE
COLLECTED: 09/18/96 19:15 AUTOMATED HEMATOLOGY		11114.	NOIL-RANGE	UNITS
WBC RBC HGB HCT MCV MCH MCHC RDW PLATELET MPV  DIFFERENTIAL & MORPHOLOGY LYMPH %	23.2 3.22 10.5 29.8 92.6 32.6 35.1 12.3 339 7.6	H L L	5.0-12.0 4.70-6.10 14.0-18.0 42.0-52.0 80.0-94.0 27.0-31.0 32.0-36.0 11.5-14.5 130-400 7.4-10.4	thou/cmm mill/cmm g/dl % fl pg g/dl % thou/cmm fl
MONO % NEUT % EOS % BASO % LYMPH, TOTAL MONO, TOTAL NEUT, TOTAL EOS, TOTAL BASO, TOTAL	74.6 10.5 14.00 0.7 0.2 17.4 2.4 3.2 0.2 0.0 APPEARS NORMAL	H H	35.0-70.0 1.7-9.3 30.00-75.00 0.0-10.0 0.0-2.0 1.2-3.4 0.1-0.6 1.4-6.5 0.0-0.7 0.0-0.2	% % % thou/cmm thou/cmm thou/cmm thou/cmm

\* - new results\_

Patient name:

MRN:

Room: 0000

KEY FOR ABNORMAL COLUMN: L-LOW, H-HIGH, AB-ABNORMAL, C-CRITICAL, T-TOXIC

STAT PRINTING

PAGE: 1 of 1

19:13

8

Patient name:

M.R.N.:

Id no:

Location : EMERGENCY room: 0000

Order Id:

Sex: M

Age: M5

Date&Time Ordered :

Adm. date:

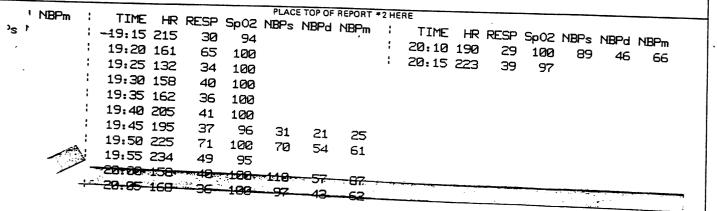
Surg. date: Att. physician: Req. physician:

### CHEMISTRY

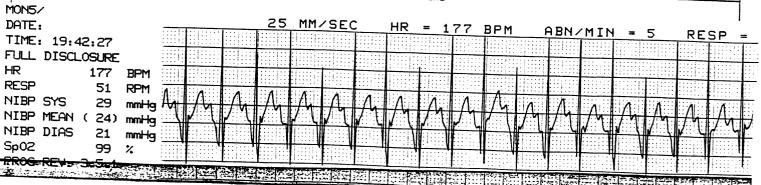
TEST-NAME	RESULT	ABN.	NRML-RANGE	UNITS	
AUTOMATED CHEMISTRY SODIUM POTASSIUM CHLORIDE BICARBONATE GLUCOSE UREA NITROGEN CREATININE	142 4.0 103 22 147 11 0.4	H L	137-150 3.5-5.3 99-111 22-30 65-115 5-25 0.5-1.5	meq/l meq/l meq/l meq/l mg/dl mg/dl mg/dl	

# LABORATORY REPORTS









FORM H-3

BEST AVAILABLE

## CERTIFICATE FOR TRANSFER

iame:	DOB:	Pt#:	
ECTION II: (This section must authorizes transfer.)			
The patient has been stab probability, no material likely to result from trail Patient's condition has n	ilized such that w deterioration of t nsfer.	ithin reasonable medical he patient's condition is	-
Patient's condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient is having the condition has no Pregnant patient in the condition has no Pregnant patient in the condition has no Pregnant patient in the condition has no Pregnant patient in the condition has no Pregnant patient had no Pregnan	g contractions. ck one of the foll	owing	_
3. A legally responsible per transfer.	son acting on the $j$	patient's behalf requests	
labor, to the unborn chil	medical treatment sks, if any, to the	y expected from the at another medical facility e patient (and in case of	
minimizes the risks to the provided purporn child).	medical treatment e patient (and in	the case of labor, to the	
The receiving facility ha the treatment of the pati	ent and has acreed	and quality personnel for to acceptatransfer. cepting: d personnel and transportation	
appropriate life support	measures.	r necessary and medically	n
D. The patient (or person acrisks and benefits of tra E. Consent form has been sig	nster.		
Dellatt.)			
BTransfer was offered but acting on the patient's b	refused by a legal	k A or B belowly responsible person	-
Name	Relation	onship	
patient's transfer, the medica of appropriate medical treatme increased risks, if any, to th child).	I benefits reasonal int at another mediale patient, (and in	ole at the time of the oly expected from the provisional facility outweigh the case of labor, to the unborn	
Physician Signature	Date Winter	Signature // Date	<del>e</del>
	/		

## PATIENT TRANSFER ORDER

Patient Name:	Physician Name:
I direct that this patient	be transferred consistent with these instructions:
Destination Hospital:	
٤	Name of Person Accepting for Hospital:
Accepting Physician:	Name // Date
CANNON	Available Space Confirmed
Mode of Transfer:	Available Personnel Confirmed
Ambulance/ALS	Conducted by:
Ambulance/BLS	Name of Transfer Service or Agency:
Helicopter	- ting
Other	Conducted by:
Required Life Support:	Date: // / Time: 3000
<u>+110</u>	Time of Arrival: $20/2$ Time of Transfer: $20$
	Notes:
Required Personnel to Accompany Patient:	
Medical Orders carried out  CT C-Spine CXR  (Ved)	7
Radio contact is to be main direction over the patient	ntained during transfer, with on-line medical s care to be exercised by:
This Hosptial	Destination Hospital Other
Copies of all medical recor	rds to accompany patient:(circle which records sent)
	ster Chemistry PT/PTT Others: Chem 7 CT head
Date: , _996	Time: 7/56PM/ Imprint I.D.
Physician's Signature:	
	Page 2

### CONSENT FOR TRANSFER

fame: L	DOB:	Pt#:	
ECTION I: PATIENT CONSENT (This seemd/or responsible individual)	ection must be signed	by the patient	
I understand that The risks involved in the transfer risks of foregoing transfer and I a ransfer.	diagnosis is Achieve been explained accept full responsible	to me as well as	the
Summary of risks and benefits (to b	oe completed by phys:	lcian):	
need neurous 61	Generation &	Nossile =	Sunger
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I release / L	and its	agents from liabi	lity as
a result of this transfer.	· · · · · · · · · · · · · · · · · · ·	, 1,	a
Standard Company	Relationship	Date	<u> </u>
Signature In /	Relacionship	rate / /.	<b>~</b> ,
Witness (licensed personnel)	Licensure	Date	<del></del>

THE POST OF THE PO						
EMERGENCY PHYSICIAN	PERSONAL PHYSICIAN	COMMENTS				
ADMITTED/REFERRED TO	CHIEF COMPLAINT	PT UNABLE TO FOLL OUT OFFE	277			
	<u> </u>	NEV .	AUTO ACCIDENT  O YES O NO			
EMERGENCY DEPARTMENT CONSENT FOR TREATMENT						

# AGREEMENT FOR EMERGENCY DEPARTMENT SERVICES

The examination and treatment which you receive on any emergency basis is not intended as a substitution or replacement for complete medical care. Please seek further care as indicated on the reverse side of this form.

ABOUT YOUR BILL. You will receive a bill from the hospital for provision of the health-care facility, including staff and equipment, and for any supplies or medicines utilized. You will also receive a bill from the emergency physician/specialist who provides your professional care. If you have an E.K.G., X-Ray, or complicated lab specimen (one that requires interpretation by a pathologist), then (a) the interpretation rendered on an emergency basis is a preliminary interpretation, (b) a final interpretation will be made as soon as possible by the appropriate specialist who will bill for his/her services separately, and (c) if there is a discrepancy or variance in these interpretation, you will be notified (it is your responsibility to provide the hospital with a correct address and telephone number where you can be reached for this purpose).

YOUR RESPONSIBILITY FOR PAYING FOR SERVICES Your insurance policy is a contract between you and your insurance company. The hospital cannot actually charge your insurance company for services rendered to you, but can only send them a copy of the charges. The hospital cannot guarantee that your insurance company will pay your claim. When you sign an authorization for an insurance company to pay benefits to the hospital, upon receipt of the payment credit will be given to your account. Your insurance company will notify you of the amount paid. When you sign the claim form and/or the consent below, you are authorizing the hospital to furnish information (including copies of medical records relative to this visit) to the insurance company listed on the registration sheet in the form of a bill.

-CONSENT FOR MEDICAL TREATMENT Upon my registration, I do voluntarily consent to such hospital care encompassing diagnostic and therapeutic procedures and medical treatment, as may be ordered by my physician, his assistants or designees, as is necessary in his judgement. I realize the physicians furnishing services to the patient, including radiologists, anesthesologists, cardiologists, pathologists, and emergency physicians are independent contractors and are not employees or agents of the hospital. These contractors will bill independently for their services when rendered.

-AUTHORIZATION TO RELEASE INFORMATION Upon my registration, I agree that my physician and hospital authorities may give out written or verbal information concerning my hospital records to any insurance carrier or agent or agent that is duly responsible to the hospital or patient, whether

-AUTHORIZATION TO PAY INSURANCE BENEFITS Upon my registration, I hereby authorize payment directly to the hospital of all hospitals benefits otherwise payable to me for the period of hospitalization, but not to exceed the hospital's total charges. The hospital files insurance claims as a courtesy payment of benefits to the hospital, I understand that my account will be handled as a private pay account.

-FINANCIAL AGREEMENT The undersigned hereby agrees to pay all statements not covered by the insurance for the services rendered by this hospital upon discharge. Any balance not paid within thirty (30) days after the date of discharge will be considered in default unless financial arrangements have and court costs necessary to collect payment on any portion of the delinquent balance.

-AUTHORIZATION FOR COMMUNICABLE DISEASE TESTING I hereby authorize and consent to my blood being tested for communicable diseases, including but not limited to HIV (AIDS virus), if any other person is exposed to my blood or bodily fluids as a result of providing or assisting with my care. (If the

X			Z	_		~
ر	SIGNED PATIENT OR AUTHORIZED REPRESENTATIVE	DATE	WITNESS		DATE	<u>~~~</u>

TRIAGE ASSESSMENT FORM BEST AVAILABLE PATIENT: PT #: PRIORITY: DOB 26 YRS MO: URGENT SEX ED PHYS: Date: PRIV MD: .an Presentation Time: 19:20 Triage Time: 19:50 Arrival Mode: \*AMB-POV Weight: 000 lbs. 0.0 kgs LMP: N/A Last Tetanus: N/A Chief Complaint: MVA--MINOR INJURY Vital Signs Brief Assessment: RESTRAINED DRIVER T BONE MVA; C/O PAIN IN THE L FOREARM; T. 101.4 C/O MILD DISCOMFORT IN THE HIPS AND LOWER BACK; SKIN W&D; P. 138 ANXIOUS; CRYING; A&OX4; IN RM 1 W/ CHILD R. 24 BP. 160/092 Plan WR LΑ ER XR Pre-Hospital Treatment: NOT SINCE PREG; ON DEPO PROVERA Past Medical History: PREECLAMPSIA IN PREG {llergies: **JKA** fedicines: )EPO PROVERA Jurse Signature: Triage Nurse: TESTS ORDERED

:ode Dep Order# Description Comments

X FOREARM ROUTINE LEFT PT IN RM 1

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PATIENT: DOB/AGE:

PT ADMN: MED REC: ORDER #: PT CLASS: ER

RACE/SEX: CAUCASIAN F

ROOM/BED:

PRIORITY: ROUTINE

PHYSICIAN:



EXAM DATE:

HISTORY: MVA--MINOR INJURY

·The osseous structures

LEFT FOREARM AP AND LATERAL, The osseous structuare intact. No acute bony abnormality is seen. The soft

tissues are unremarkable.

IMPRESSION: No acute bony abnormality identified.

Thank you for your referral.

TECH:

DATE DICTATED DATE TRANSCRIBED TRANSCRIPTIONIST SIGNED BY:

D

MEDICAL RECORDS

PATIENT:

DOB/AGE:

PT ADMN: MED REC:

ORDER #:

PT CLASS: ER

RACE/SEX: CAUCASIAN F

ROOM/BED:

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PRIORITY: ROUTINE

PHYSICIAN:

#### EXAM DATE:

HISTORY: MVA--MINOR INJURY

LEFT HAND, -96: There is a ring artifact projected over the mid aspect of the proximal phalanx of the 4th digit which obscures the bone in this area other than this area which is not seen due to artifact. No fracture, dislocation or radiopaque foreign body is identified.

IMPRESSION: No fracture seen with the limitation as described above.

Thank you for your referral.

TECH:

DATE DICTATED

DATE TRANSCRIBED TRANSCRIPTIONIST

NIST BRM

SIGNED BY:

)

RADIOLOGIST PAGE 1 OF 1

MEDICAL RECORDS

RFOCE	In Hospital	Working Cop	4 96-13	Georgie BEST AVAILABLE
TYPE	•		SOCIAL S	ECURITY NO. MEDICAL RECORDS
M FC SPECIAL HANDLING	SEX RACE M	S SRC CAT CLERK		AGE ADMIT DATE TIME
AMILY C.A.	ATTENDING PHYSICIAN	- AW	MED. SERV.	LOS DISCHARGE DATE TIME
'ATIENT ADDRESS		. •	COUNTY OF RESIDENCE	110 -91-17
ROUGHT BY NAME OF SPOUSE		Tr.		
CCIDENT DESCRIPTION AND DATE	BAPTIST NAME AT LAST	ADMIT		COUNTY AND STATE OF BIRTH
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#### **DISCHARGE SUMMARY**

Age: 005M

DATE OF ADMISSION:

DATE OF DISCHARGE:

ADMISSION DIAGNOSIS:

1. Closed head injury with skull fracture and intracranial contusion.

SUMMARY:

This five-month-old child was riding in the front seat with his back facing forward when the vehicle was involved in

an accident. The air bag exploded, striking the child in the right occipitoparietal region. He was initially seen in the Emergency Room at Statesboro and had a CT scan done which revealed a fracture of the right parieto-occipital region. He also had some contusion on the left frontotemporal area with a small subdural. The patient was transferred here. He, after admission, had nystagmus and a large subgaleal hématoma and effusion over the right scalp area. The patient remained in the NICU. His nystagmus and irritability gradually improved. At the time of discharge, he was awake. His nystagmus had pretty much cleared. He was to continue on a decreasing dose of Decadron and return to my office in a couple of weeks for followup evaluation.

an involuntary, rapid, Phythroce Movemen eyeball, which may be Adrigantal, vertice or mufed i. e., of Hove Varieties

DISCHARGE SUMMARY

#### HISTORY AND PHYSICAL

Age: 005M

Rm# 753

DATE OF ADMISSION:

CHIEF COMPLAINT:

Head injury.

HISTORY OF PRESENT ILLNESS:

This five-month-old white male apparently was riding in the front seat with his back facing forward. The vehicle

was involved in an accident and the air bag exploded striking the child's right occipitoparietal area. The child was taken initially to the Emergency Room at , had evaluation, CT scan which revealed a fracture of the right parieto-occipital area with contusion of the left frontotemporal area with a small subdural. The patient was noted to have continuous gaze toward the left and was irritable. The child had restraints applied and he was subsequently transferred here.

PAST HISTORY.

Reveals that the child was born some five weeks premature. He has had no serious medical illnesses.

PHYSICAL EXAMINATION:

The physical examination reveals the child to be somewhat

irritable.

HEENT:

He has a large subgaleal hematoma of the right parieto-

occipital area. He has nystagmus with preference of gaze toward the left. The patient moves all extremities.

Reflexes are symmetrical. Bilateral Babinskis.

Neck:

Not remarkable. X-rays appear normal.

Chest:

Symmetrical. Clear to auscultation and percussion. No

abnormal masses. No bruises.

Abdomen:

Negative.

Anorectal:

Not done.

Genitalia:

Normal for age.

Age:

005M

Rm#

753

IMPRESSION:

1. Closed head injury with right parieto-occipital skull fracture with left frontotemporal contusion and small subdural hematoma.

- 1- n N

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DISC	DISC	PHYS:	, -	PRII	ATED: DA	MR NO		0029
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\*\*\*\*\*\* 31300 DEN 1/05

PAGE

4

PATIENT NAME: ORDERING DR : EXAM DATE: INPATIENT -

EXAM: \*CT HEAD W/O CONTRAST

M/R NUMBER:
RADIOLOGY NUMBER:
TRANSCRIBE DATE:
ORDER NUMBER:
ACCT. NUMBER:

Clinical Data: Follow up of subdural hematoma. Skull fracture.

There is a skull fracture noted posteriorly in the left parietal bone with a small depressed bone fragment measuring about 3 mm in thickness and about 6 mm in length. I think there is very minimal adjacent brain edema.

The study obtained at demonstrated what looked like a small intracerebral hematoma on the left side. However, I don't think this is definitely present on today's examination. Ventricular size is normal. Note is made of a cavum septum pellucidum. No contralateral abnormalities are detected.

IMPRESSION: A small minimally depressed skull fracture in the posterior left parietal bone and a small subdural hematoma in the left anterior parietal-frontal region.

VERIFIED DATE:

Referring Physician:			
Interpreting Physician:			
Tested by:	DATE:	EEG#	
DESCRIPTION OF THE EEG and muscle artifact occurred but it	: The electroencephalogram was acc t was otherwise technically satisfactory.	omplished during the drowsy state.	Some movemen
During lighter stages of drowsin amplitude on the left than the right.	The recording revealed a medium en seen was most prominently distributed in the sees, activity in the range of 5 to 7 cycles. Low amplitude fast activity was noted personatic stimulation revealed little evidence of	per second appeared and was of sistently throughout the recording.	is symmetrically
IMPRESSION: premedication. No definite focal to be of clinical significance.	The recording is essentially no or epileptogenic activity could be seen an	ormal for this age during the sle d the slight asymmetry during drov	eping state with vsiness is not fel
CLASSIFICATION:	ESSENTIALLY NORMAL. S	LEEPING	
	IGNATU: (16) FI	.E	